

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1351	(8/405).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:14
L2	892	(8/406).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:14
L3	390	(8/409).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:14
L4	1123	(540/575).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:14
L5	687	(544/141).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:15
L6	776	(544/372).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:15
L7	1235	(546/208).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:15
L8	304	(548/262.2).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:15
L9	712	(548/314.7).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:15
L10	499	(548/364.1).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:15
L11	861	(548/518).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:15

EAST Search History

L12	563	(548/557).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 11:15
L13	41783	(pyrrolidine)".CLM"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/02/17 11:22
L14	318	l3 and phenylenediamine	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/02/17 11:22
L15	318	l3 and (phenylenediamine)".CLM"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/02/17 11:22
L16	317	l15 and (dye)".CLM"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/02/17 11:23

EAST Search History

S16	195	(("4003699") or ("4823985") or ("5061289") or ("5380340") or ("5766576") or ("5851237") or ("5993491") or ("6099592") or ("2261002") or ("2271378") or ("2273780") or ("2375853") or ("2388614") or ("2454547") or ("3061432") or ("3206462") or ("3227554") or ("3419391") or ("3725067") or ("3758309") or ("3874870") or ("3915921") or ("3926631") or ("3929990") or ("3966904") or ("4001432") or ("4005193") or ("4025617") or ("4025627") or ("4025653") or ("4026945") or ("4027020") or ("4128425") or ("4157388") or ("4349532") or ("4390689") or ("4500548") or ("4500630") or ("4509949") or ("4540654") or ("4608250") or ("4621046") or ("4702906") or ("4719282") or ("4842849") or ("5135543") or ("5196189") or ("5249740") or ("5256526") or ("5278034") or ("5441863") or ("5457210") or ("5538516") or ("5707786") or ("5708151") or ("5735908") or ("5769903") or ("5785717") or ("5876464") or ("6042620") or ("6099593") or ("6165230") or ("6461391") or ("6464731") or ("6521761") or ("6613313") or ("6638321") or ("20020197223") or ("20030093866") or ("20030150066") or ("20040064902") or ("20040074013") or ("20040078905") or ("20040083559") or ("20040088799")).PN.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/17 09:47
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Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1600RXA

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS 6 DEC 14 CA/CAPLUS to be enhanced with updated IPC codes
NEWS 7 DEC 21 IPC search and display fields enhanced in CA/CAPLUS with the
IPC reform
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
USPAT2
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
INPADOC
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV
NEWS 13 JAN 30 Saved answer limit increased
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency
added to TULSA

NEWS EXPRESS FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 05:57:02 ON 17 FEB 2006

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.42

0.42

FILE 'REGISTRY' ENTERED AT 05:57:58 ON 17 FEB 2006
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STRUCTURE FILE UPDATES: 15 FEB 2006 HIGHEST RN 874326-73-5
DICTIONARY FILE UPDATES: 15 FEB 2006 HIGHEST RN 874326-73-5

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

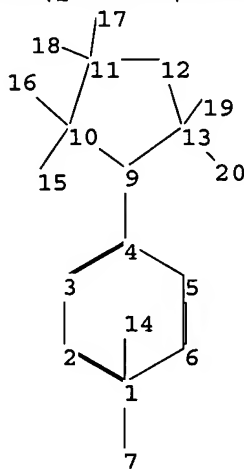
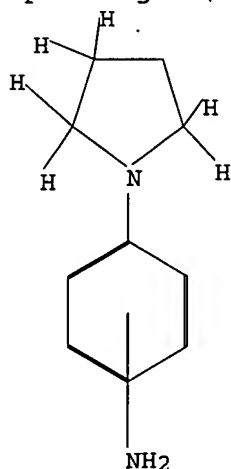
Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\10612986.str



chain nodes :
7 15 16 17 18 19 20
ring nodes :
1 2 3 4 5 6 9 10 11 12 13
chain bonds :
4-9 10-15 10-16 11-17 11-18 13-19 13-20
ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-13 10-11 11-12 12-13
 exact/norm bonds :
 4-9 9-10 9-13
 exact bonds :
 10-11 10-15 10-16 11-12 11-17 11-18 12-13 13-19 13-20
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6
 isolated ring systems :
 containing 1 : 9 :

G1:H,CH3

Match level :

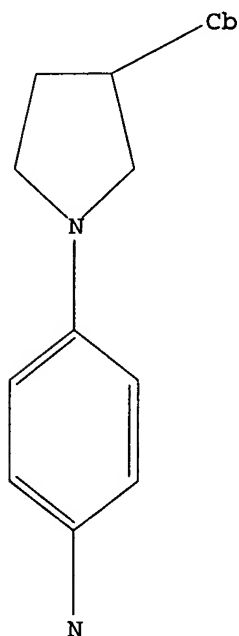
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:Atom 10:Atom 11:Atom
 12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
 20:CLASS

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 05:58:19 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 2681 TO ITERATE

74.6% PROCESSED 2000 ITERATIONS
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
 SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 50515 TO 56725
PROJECTED ANSWERS: 0 TO 0

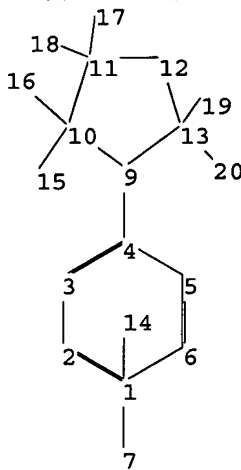
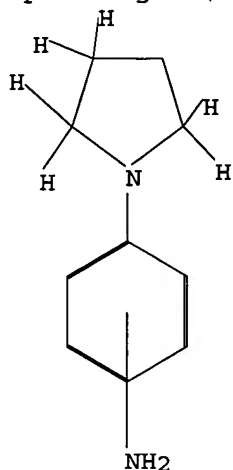
L2 0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 05:58:23 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 55948 TO ITERATE

100.0% PROCESSED 55948 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10612986.str



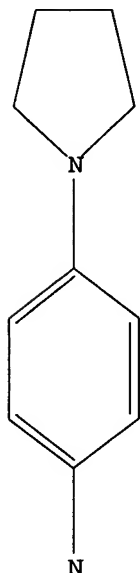
chain nodes :
7 15 16 17 18 19 20
ring nodes :
1 2 3 4 5 6 9 10 11 12 13
chain bonds :
4-9 10-15 10-16 11-17 11-18 13-19 13-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-13 10-11 11-12 12-13
exact/norm bonds :
4-9 9-10 9-13
exact bonds :
10-11 10-15 10-16 11-12 11-17 11-18 12-13 13-19 13-20
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 9 :

G1:H,CH3

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS

L4 STRUCTURE UPLOADED

=> d
L4 HAS NO ANSWERS
L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l4
SAMPLE SEARCH INITIATED 05:59:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2681 TO ITERATE

74.6% PROCESSED 2000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 50515 TO 56725
PROJECTED ANSWERS: 7362 TO 9850

L5 50 SEA SSS SAM L4

=> s l4 full
FULL SEARCH INITIATED 05:59:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 55948 TO ITERATE

100.0% PROCESSED 55948 ITERATIONS 8658 ANSWERS
SEARCH TIME: 00.00.01

L6 8658 SEA SSS FUL L4

=> s l6 and caplus/lc
49752170 CAPLUS/LC
L7 5008 L6 AND CAPLUS/LC

=> fil cpalus
'CPALUS' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'REGISTRY'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue

accessing the remaining file names entered.

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

339.08

339.50

FILE 'CAPLUS' ENTERED AT 05:59:55 ON 17 FEB 2006

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FILE COVERS 1907 - 17 Feb 2006 VOL 144 ISS 9

FILE LAST UPDATED: 16 Feb 2006 (20060216/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

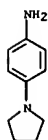
<http://www.cas.org/infopolicy.html>

=> s l7

L8 1713 L7

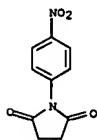
=> d ibib abs hitstr l8 1700-1713

L8 ANSWER 1700 OF 1713 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1952:51930 CAPLUS
 DOCUMENT NUMBER: 46:51930
 ORIGINAL REFERENCE NO.: 46:8647d-f
 TITLE: Nitrosation and sulfonation of 1-phenylpyrrolidine
 AUTHOR(S): Tur'ev, Yu. K.; Arbatskii, A. V.
 SOURCE: Vestnik Moskovskogo Universiteta (1951), 6(No. 2, Ser.
 Fix.-Mat. i Estestven. Nauk No. 1), 97-102
 CODEN: VMUNAE; ISSN: 0372-6320
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB 1-Phenylpyrrolidine (I) (7.5 g.) with 27 ml. concentrated HCl, diluted with 55 ml.
 H2O, treated at -9° with 3.7 g. NaNO2 gave 71% reddish
 1-(p-nitrosophenyl)pyrrolidine-HCl, (II), forming; with Na2CO3 green
 crystals of the free base decompose 121° (from Et2O). II (5 g.)
 added to 6 g. Sn and 13 ml. concentrated HCl gave, after heating 3 hrs.
 and removal of the Sn by H2S, 1-(p-aminophenyl)pyrrolidine, b3 142-3°,
 m. 51°; the HCl salt, m. 207-8°, treated with aqueous NaOH
 followed by BzCl gave 1-(p-benzamidophenyl)pyrrolidine, m. 236°
 (from EtOH). II (10 g.) with 350 ml 1.5 N NaOH at reflux gave 65.5%
 pyrrolidine and p-ONC6H4OH. I (6 g.), 20 g. MePh, and 20 g. pyridine-SO3
 heated 10 hrs. at 111-12°, then treated with aqueous BaCO3, gave 25% Ba
 p-(1-pyrrolidyl)benzenesulfonate (from aqueous EtOH); free acid,
 decompose 202°. Sulfonation of I with dioxane-SO3 in (CH2Cl)2 1 hr. at
 75-80° gave 61% sulfonic acid which, ground with PCl5, gave 56%
 sulfonyl chloride, yellow, decompose 154° (from C6H6).
 IT 2632-65-7, Pyrrolidine, 1-(p-aminophenyl)- 52695-15-5,
 Pyrrolidine, 1-(p-nitrosophenyl)- 216670-47-2, Pyrrolidine,
 1-(p-aminophenyl)-, hydrochloride 857422-36-7, Benzanilide,
 4'-(1-pyrrolidinyl)-
 (preparation of)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

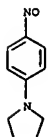


RN 52695-15-5 CAPLUS
 CN Pyrrolidine, 1-(4-nitrosophenyl)- (9CI) (CA INDEX NAME)

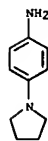
L8 ANSWER 1701 OF 1713 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1952:21608 CAPLUS
 DOCUMENT NUMBER: 46:21608
 ORIGINAL REFERENCE NO.: 46:3701h-1,3702a-b
 TITLE: Stimulation of seedling growth by seed treatments
 with N-phenylsuccinimide derivatives
 AUTHOR(S): Allen, Seward E.; Skoog, Folke
 CORPORATE SOURCE: Univ. of Wisconsin, Madison
 SOURCE: Plant Physiology (1952), 27, 179-83
 CODEN: PLPHAY; ISSN: 0032-0889
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB Certain aromatic derivs. of succinimide stimulated growth of wheat and
 radish seedlings, particularly of roots, in 4-day germination tests.
 Aqueous solns. of N-(2,4-dichlorophenyl)succinimide at 10 to 50 p.p.m. as
 compared with water controls consistently increased the root length by 30 to 75%.
 N-Phenylsuccinimide and N-o-chlorophenyl-, N-m-chlorophenyl-, and
 N-p-chlorophenylsuccinimide were slightly less effective. Low concns. of
 N-o-nitrophenyl-, N-m-nitrophenyl-, and N-p-nitrophenylsuccinimide were
 also active but above 50 mg./l. tended to be toxic. The effect was
 obtained both in the presence and absence of mineral nutrients.
 Succinimide and its N-methyl-, N-butyl-, N-furfuryl-, and
 N-tetrahydrofurfuryl deriva. had only slight, if any, effects. The
 monochlorinated N-phenylmalimides or phthalimides, if at all active, had
 much less effect than similar N-phenylsuccinimides. The organic acids
 corresponding to the imides were inactive. No reproducible stimulation
 of growth in older plants was obtained either by seed treatments or by
 subsequent applications of the chemicals to shoots or roots.
 IT 35488-92-7, Succinimide, N-[p-nitrophenyl]-
 (seed treatment with, seedling-growth stimulation by)
 RN 35488-92-7 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



L8 ANSWER 1700 OF 1713 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

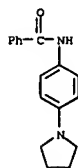


RN 216670-47-2 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 857422-36-7 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



L8 ANSWER 1702 OF 1713 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1952:8494 CAPLUS
 DOCUMENT NUMBER: 46:8494
 ORIGINAL REFERENCE NO.: 46:1464b-1,1465a-1,1466a-1,1467a-1,1468a-b,1469a-1,1470a-1,1471a-h
 TITLE: Chemical constitution, electrochemical, photographic, and
 allergenic properties of p-amino-N,N-dialkylanilines
 AUTHOR(S): Bent, R. L.; Dessloch, J. C.; Duennebier, F. C.;
 Fassett, D. W.; Glass, D. B.; James, T. H.; Julian, D.
 B.; Ruby, W. R.; Snell, J. M.; Sterner, J. H.;
 Thirtle, J. R.; Vittum, P. W.; Weissberger, A.
 CORPORATE SOURCE: Research Labs., Kodak, Rochester, NY
 SOURCE: Journal of the American Chemical Society (1951), 73,
 3100-25
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 GI For diagram(s), see printed CA Issue.
 AB cf. C.A. 45, 5535b. The ability of color-forming developing agents of the
 p-amino-N,N-dialkylaniline type to release electrons was measured by
 their polarog. half-wave potentials, E1/2 (mv.) vs. H electrode at pH 11.0,
 development rate 1/t (min.-1), and coupling efficiency are presented for
 55 compds. The potentials become more pos. when electron-releasing
 groups are introduced at the tertiary N or in the position ortho to the primary
 amino group in the C6H6 ring, and the reverse holds for
 electron-attracting groups. The sequence of half-wave potentials can be
 explained on the basis of inductive or mesomeric effects of the groups
 involved, though in several instances the size of the mesomeric effect
 would not have been anticipated. Steric factors are present. They are
 dominant if the substituents are ortho to the tertiary amino group. Ring
 closure involving the tertiary N and the ortho C atom in the C6H6 ring
 counteracts the steric hindrance. Steric hindrance is also found if
 6-membered rings are closed between the 2 nonarom. substituents on the
 tertiary N. Formation of 5-membered rings has the opposite effect. A
 close relation exists between the half-wave potentials and the abilities
 of the developing agents to reduce Ag halide and to form dyes in coupling
 development. Some deviations from this relationship are observed and
 explained. Certain substituents diminish the allergenic properties of
 p-amino-N,N-dialkylanilines. All compds. of high allergenic potency have
 relatively pos. half-wave potentials. Allergenic potency is believed to
 be related to oxidation to semiquinones and quinones which, by
 condensation with body proteins, may form antigens. The compds. described in Table I
 were prepared by the following methods. Salts of 1. Method 1a: The
 theor. amount of acid for the mono-acid salt in 5 vols. absolute EtOH was added
 to the distilled 4-amino-N,N-dialkylaniline (I) in 3 vols. absolute or 95%
 EtOH; 1b: as
 in 1a, except 5% excess acid over 2 mols. concentrated HCl was used; 1c:
 acid in 10 vols. absolute EtOH added to I in 2 vols. absolute EtOH; 1d: the free
 base in a mixture of equal wts. of water and the theor. amount of acid was diluted
 with 10 vols. absolute EtOH. Method 2a: 0.1 mol of the acetamide in 50 cc.
 water and

L8 ANSWER 1702 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
50 cc. concd. HCl was refluxed 2 h., and the residue in 150 cc. abs. EtOH
concd. to a sirup, which in 200 cc. abs. EtOH was concd. to crystn.; 2b:
as in 2a, except that the final soln. in 100 cc. abs. EtOH was not
concd.;
2c: compd. 15 was refluxed 17 h. with 4 vols. concd. HCl, the acid
removed
in vacuo, 1 vol. more added and distd. off, and the residue in 1 vol.
EtOH
concd. to crystn. Method 3a: the theor. amt. of acid in 5 vols. abs.
EtOH
was added to the filtered alc. soln. of I; 3b: H2SO4 was added in 95%
alc.
and the soln. allowed to stand 3 days at room temp.; 3c: same as 3a
except
that Et2O or Me2CO was added to crystn. and the soln. allowed to stand
overnight at 0°; 3d: 7 cc. water was added to the filtrate and the
salt. pptd. with Et2O. Bases. The last step in the prepn. of the I was
in every case a redn. of a nitroso, a nitro, or an azo compd. Method 4:
300 g. Zn dust was added to 1 mol of the nitroso compd. (II) (Table II)
in
1 l. water and 600 cc. concd. HCl at 20°, the mixt. filtered,
excess 50% NaOH or NH4OH added, the oil extd. with C6H6 or CHCl3, and the
soln. concd. to a small vol. and fractionated in vacuo. Method 5: 0.2
mol
II in 25-150 cc. abs. EtOH contg. Raney Ni was hydrogenated 10-30 min. at
70-80° and 45 lb./sq. in. Method 6: 0.2 mol nitro compd. was
reduced as in 5 and the filtrate treated as in 3. Method 7: the
2,5-dichlorophenylazo compds. were reduced as in method 5 and the salts
pptd. as in method 3. Method 8: the p-nitrophenylazo compd. was reduced
catalytically, the filtrate concd. in vacuo, 100 cc. Ac2O and several
drops concd. H2SO4 added, the mixt. heated on the steam bath 30 min., 600
cc. water added, the soln. neutralized with NaOH, 200 cc. concd. HCl
added, the p-C6H4(NHAc)2 filtered off, the filtrate made alk. with 50%
NaOH and chilled to yield 4-acetamidodiallylaniline, and the salt prepd.
as in 2a. Method 9: solid NaHSO3 was added in small portions to a soln.
of the p-sulfonylazo deriv. (method 14) until the red color
disappeared, the soln. made alk. with 50% NaOH, and the product extd.
with
Et2O. Method 10: 1 mol of N,N-diallylaniline in 1 l. water and 250 cc.
concd. HCl at 0° was nitrosated with 69 g. NaNO2 in 200 cc. water
at 0-5°, the mixt. stirred 30 min. at 0-5°, and (a) the
mixt. made alk. with NH4OH and stirred until crystn., or (b) the HCl salt
pptd. Method 11a: 12.6 g. 2,4-H2N(O2N)C6H3N2, 4.9 g. NaOAc, 9.5 cc.
Ac2O, and 25 cc. AcOH stirred on the steam bath 4 h., the Ac2O
hydrolyzed,
and the mixt. made alk. with NH4OH and extd. with C6H6 yielded 12.3 g.
2-acetamido-4-nitro-N,N-diethylaniline, m. 49-50.5° (from
C6H14-C6H6); 11b: 13 g. 3,4-H2N(O2N)C6H3N2, 25 cc. Ac2O, and 30 cc. AcOH
heated on the steam bath 2 h. yielded 14 g. of the 3-acetamido compd., m.
94-5°. Method 12: anhyd. piperazine (25.8 g.) and 9.5 g.
p-ClC6H4NO2 in a stoppered bottle heated 16 h. in a steam bath, the mixt.
melted into 300 cc. slightly alk. water, filtered, the moist ppt. extd.
with two 100-cc. portions of C6H6, and the dried soln. dild. with 600 cc.
petr. ether and filtered yielded 9.0 g. 1-(p-nitrophenyl)piperazine, m.
129-30°. For other substituted 4-O2NC6H4N2 the substituent,
yield, and m.p. are: 2-NO2, 85, 78-80°; 2-NH2, 32, 204-5°
(HCl salt); 3-NO2, 56, 94-6°, 3-NH2, 92, 136-7°; 3-NHET, 95,
78-80°; 3-NMe2, 92, 63.5-4.5°. Method 13: 1 mol
p-O2NC6H4NH2 in a boiling mixt. of 300 cc. each water and concd. HCl was
poured onto 2 kg. ice, 1 mol NaNO2 added all at once, the mixt. stirred
30
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23b: 1 mol III and 61.8 g. N2H4H2O were refluxed 1 h., the soln. cooled,
340 cc. concd. HCl added, the mixt. stirred 30 min. at 80°, 450 cc.
water added, the mixt. cooled to 20°, filtered, the filtrate and
washings concd. to 350-450 cc., the soln. filtered, the filtrate made
alk.
with 40% NaOH with cooling, 450 cc. Et2O added, the ppt. filtered off,
the
Et2O soln. concd., and the residue distd. in vacuo. Method 24: 2 mol
nitrile and 250 cc. NH3 with 15 g. Raney Ni were hydrogenated 8 h. at
110-15° and 1500-2000 lb./sq. in. Method 25a: 0.5 mol amine was
added to 75 cc. Ac2O kept below 75°, the mixt. heated on the steam
bath 30 min., 500 cc. water added, and the mixt. cooled; 25b: 115 g.
MeSO2Cl and 40 g. NaOH in 200 cc. water were added simultaneously to 1
mol
amine in 1 mol water at 10° and the mixt. stirred 45 min. at
10°. Method 26a: 0.3 mol sulfonamide and 600 cc. water contg. 28.8
g. NaOH were warmed until dissolved, the soln. cooled to 35°, 45.3
g. Me2SO4 added at 35°, the mixt. stirred 1.5 h., allowed to stand
2 h., and the amide extd. with Et2O; 26b: 0.25 mol of the Na salt of
m-EtOC6H4N2CH2CH2NH2SO2Me in 50 cc. water was warmed until dissolved and
kept at 0° overnight, 5 cc. MeI added, the mixt. refluxed 1.25 h.,
filtered, concd. to a sirup, the sirup shaken with water and Et2O, and
the
Et2O evapd. Method 27a: Br (740 cc.) added during 7 h. to 2020 g.
m-MeC6H4NO2 illuminated with a photoflood lamp at 130-40°, the
mixt. stirred at 135° until no more HBr was evolved, the cooled
mixt. in 2 l. Et2O washed with 2 l. water, the Et2O evapd., the residue
allowed to stand 2 days, and the liq. decanted from the crystals and
fractionated yielded 683 g. m-O2NC6H4CH2Br (IV), m. 58° (from
EtOH), b7-8 153.5-4.5°; 27b: 173 g. IV added to 49 g. NaCN in 80
cc. and 280 cc. EtOH at 20°, the mixt. stirred at 60-5°,
refluxed 1 h. on the steam bath, the alc. removed in vacuo, the residue
partitioned between water and Et2O, the Et2O evapd., and the residue
distd. yielded 100 g. m-O2NC6H4CH2CN (VI), b3 160-5°; 27c: 146 g. V
added to 610 g. SnCl2 in 700 cc. concd. HCl (temp. maintained at
40°), the mixt. stirred 2 h., cooled in an ice-salt bath, 1 kg. ice
added, then 21.40% NaOH (temp. kept below 35°), and the amine extd.
with two 500-cc. portions of Et2O yielded 99 g. m-H2NC6H4CH2CN, b2
132-5°. Method 28: 397 g. m-phenetidine and 432 g. EtI allowed to
stand 30 min. at 35°, then overnight at 45°, 250 cc. 40%
NaOH and 500 cc. water added, the mixed amines extd. with Et2O, the Et2O
evapd., the oily residue distd., the mixt. of primary, secondary, and
tertiary amines added to 275 cc. Ac2O, the soln. heated on the steam bath
30 min., 400 cc. water added, the soln. made alk. with 40% NaOH, and the
oil taken up in Et2O yielded 422 g. N-ethyl-m-acetophenetidide (VI), b1
105-10°. Method 29: 289 g. VI, 200 cc. water, and 200 cc. concd.
HCl refluxed overnight, make alk. with 40% NaOH, and extd. with Et2O
yielded 219 g. of the free phenetidine, b7 125-7°. Method 30: 360
g. furfural mixed with 401 g. m-MeC6H4NH2 (heat was evolved) and the
water
removed as formed yielded 485 g. N-furfurylidene-m-toluidine (VII), b3
130-2°. Method 31: 485 g. VII reduced with Raney Ni at 1600
lb./sq. in. and 60-120° yielded 378 g. tetrahydrofurfuryl compd.,
b4 140-2°. Method 32: 100 g. indole in 250 cc. abs. EtOH reduced
with Raney Ni, 7 h. at 2000 lb./sq. in. and 80-100°. 71 cc. concd.
HCl added to the filtrate and washings, and the soln. cooled to 20°
and dild. with 1 l. Et2O yielded 2,3-dihydroindole-HCl, m. 222-4°;
free base, b8 94.5°, b14 105.5°, nD29 1.5880. Method 33: 40
cc. concd. HCl, 40 cc. water, and 37.7 g. m-Et2NC6H4CH2CN refluxed
overnight, concd. in vacuo, the residue in 100 cc. water contg. 20 cc.

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min. at 0-5° 1 mol of the amine added, then 2.8-3.0 mol NaOAc in
400 cc. water. Method 14: 1 mol sulfanilic acid and 1 mol NaNO2 in 1250
cc. water were poured into 125 g. H2SO4 in 760 cc. ice-cold water, the
salt filtered off, and stirred into 1 mol dialkylaniline in about 1 l.
AcOH, and the azo compd. reduced after about 30 min. without being
isolated. Method 15: 1 mol 2,5-Cl2C6H3NH2 was diazotized (Noelting and
Kopp, Ber. 38, 3506(1905)) and the soln. at 0° added to mole of
dialkylaniline or N-alkyl heterocyclic compd. in an equal wt. of AcOH or
in 100 cc. concd. HCl and 500 cc. water, NaOAc added to pH 5, and the
product filtered off after 0.5 h. in an ice bath. Method 16a: 1 mol of a
primary aniline, 2.1 mol alkyl bromide or iodide, 1.2 mol Na2CO3, 400 cc.
EtOH, and 100 cc. water were refluxed on a steam bath 5-16 h., the alc.
removed in vacuo, 400 cc. water added, and the soln. extd. with 250 cc.
Et2O; 16b(1): as in 16a but with 1.1 mol alkyl bromide or iodide and 0.6
mol Na2CO3 or 1.2 mol NaHCO3; 16b(2) 1.34 mol N-alkyl-aniline and 0.67
mol
BrCH2CH2NH2.HBr were heated slowly to 145° during 1.75 h., the
mixt. stirred 2 h. at 145°, 400 cc. 10% NaOH stirred over the solid
mixt., the oil sep'd., the aq. layer extd. with Et2O, the combined oil and
exts. concd., and the residue distd. in vacuo; 16b(3) 15.5 g. furfuryl
chloride and 32.7 g. EtNHPh warmed gently, then cooled to control the
reaction, the mixt. finally heated on the steam bath 30 min., poured into
water, neutralized with NH4OH, the amines extd. with Et2O, and the ext.
fractionated yielded 17.5 g. N-ethyl-N-furfuryl-aniline, b3 125-6°;
16b(4) 1 mol N-alkylaniline or cyclic secondary amine, 1 mol
MeSO2NH2CH2CH2Br, 1.1 mol NaHCO3, 190 cc. water, and 500 cc. 95% EtOH were
refluxed on the steam bath overnight, the solvents removed in vacuo, and
the residue shaken with water and neutralized with AcOH (the amine was
taken up in Et2O if it did not crystallize). Method 17: 1 mol
N-tetrahydrofurfuryl-m-toluidine and 1 mol Et2SO4 were warmed, then
cooled
when the reaction started, the mixt. heated 1 h. on the steam bath,
poured
into water, neutralized with NH4OH, and the amine extd. with Et2O.
Method
18: 1 mol secondary aniline and 1.2 mol ethylene oxide were shaken in a
sealed bomb 1-2 h. at 130-5° and the product fractionated. Method
19: 80 cc. formalin was added to 104 g. NaHSO3 in 100 cc. water, 1 mol
secondary aniline added to the mixt. kept at 45-50°, the mixt.
stirred about 30 min., cooled to 40°, 50 g. NaCN in 160 cc. water
added, the mixt. stirred 20 min. at 65°, and the upper layer
fractionated in vacuo. Method 20: 1 mol nitrile was added dropwise to
400
cc. concd. H2SO4 kept at 25°, the mixt. stirred 3.5 h. at
25-30°, poured onto 1 kg. ice, 1.1 l. concd. NH4OH added at
25°, and the mixt. cooled to 0° and filtered. Method 21a: 1
mol N-alkyl-N-(2-hydroxyethyl)aniline was added to 1.1 mol POCl3 (temp.
kept at 45°), the mixt. stirred 1 h. at 90°, poured onto
ice, made alk. with NH4OH, and extd. with Et2O; 21b: 35.8 g.
m-Et2NC6H4CH2OH and 227 cc. 48% HBr refluxed overnight, the excess acid
removed in vacuo, and the residue in 100 cc. hot alc. chilled yielded
49.1
g. m-diethylaminobenzyl bromide-HBr, m. 162-4°. Method 22: 1 mol K
phthalimide and 1 mol N-alkyl-N-(2-chloro-ethyl)aniline were heated 24 h.
at 175-80°; the mixt. cooled, dissolved in 200 cc. hot Me2CO, and
the soln. stirred into 600 cc. water and filtered after 1 h. Method 23a:
1 mol phthalimidoalkylaniline (III) and 1 l. 48% HBr were refluxed 3 h.,
the mixt. filtered, the filtrate and washings concd. in vacuo, the
residue
in water made strongly alk. with 40% NaOH, and the amine extd. with Et2O;
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NaOH extd. with two 50-cc. portions of Et2O, acidified with 40 cc. AcOH,
extd. with three 70-cc. portions of Et2O, the 2nd ext. concd., and the
residue distd. yielded 15.4 g. (m-diethylaminophenyl)acetic acid (VIII),
b1 160-5°. Method 34: 14.7 g. VIII in 50 cc. Et2O added dropwise
to 3.8 g. LiAlH4 in 100 cc. Et2O during 30 min., the mixt. refluxed 1 h.,
10 cc. water added dropwise, then 150 cc. 10% H2SO4, the Et2O removed,
the
aq. layer made alk. with NH4OH, filtered, the solid washed with Et2O, the
filtrate extd. with Et2O, and the ext. and washings concd. yielded 11.1
g.
m-diethylaminophenethyl alc., b1 100-3°. The allergenic activity
of the compds. (numbered as in Table I) are: 49 low, 17 moderate, 43 low,
47 low, 39 low, 40 low, 8 moderate to high, 36 low, 13 low, 15 low, 162
low, 40 high, 16 low to moderate, 37 low to moderate, 10 moderate to
high,
54 low to moderate, 41 low, 52 low to moderate, 38 low, 22 high, 55 high.
Table I: A. p-Amino-N,N-dialkylanilines, p-H2NC6H4NR1R2; No., R1, R2,
Substituent on aniline nucleus, Intermediate, Base, M.p. or b.p./mm.,
Method, Yield (%), Salt, M.p., Method, Yield (%), 1. Me, Me, ..., ...,
..., ..., 0.5H2SO4, >235°, ..., 2, Me, Et, ..., Nitroso,
99-102/1, 4, 5, 0.5H2SO4, 225-8° (decompn.) 1a, ..., 3 Me,
Pr, ..., Nitroso, 104-6°, 4, 64, 0.5H2SO4, 222-4°
(decompn.) 1a 66; 4, Me, Bu, ..., Nitroso, 114-16°/1, 4, 78,
0.5H2SO4 208-11° (decompn.) 1a 80; 5, Et, Et, ..., ...,
..., HCl, 233.5°, ..., 6, Et, Pr, ..., Nitroso, 105-7°/1,
4, 52, 0.5H2SO4, 205-8° (decompn.), 1a, 77; 7, Pr, Pr, ..., ...,
..., H2SO4, 120-3° (decompn.), ..., 8, Me, Me, 2-Me,
..., 2HCl, 186-9° (decompn.), ..., 9, Et, Et, 2-Me,
Azo, ..., 7, ..., H2SO4, 215-20° (decompn.), 3a, 72; 10, Et, Et,
3-Me, ..., ..., HCl, 263°, ..., 10a, Et, Et, 3-Et, Azo,
..., 7, ..., HCl, 226.5-7.5°, 3c, 47; 11, Et, Et, 2.5-Me2, Azo, ...,
7, ..., 1.5H2SO4, 167-8°, 3a, 65; 12, Et, Et, 3.5-Me2, Nitroso,
..., 5, ..., HCl, 263-4°, 3c, 81; ..., Azo, ..., 7, ..., 13, Et,
Et, 3-CH2OH, Azo, 180°6, 7, ..., H2SO4.H2O, 102-3°, 3c, 72;
14, Et, Et, 3-CH2NH2SO2Me, Azo, ..., 7, ..., HCl, 196-7°, 3a, 89;
14a, Et, Et, 3-CH2CH2OH, Azo, ..., 7, ..., 2HCl, 191-2°, 3a, 79;
14b, Et, Et, 3-CH2CH2NH2, Compd. 15, ..., ..., 3HCl, 230°, 2c,
73; 15, Et, Et, 3-CH2CH2NHAc, Nitroso, 195-200°/2, 4, 84, 2HCl,
10-2° (decompn.), 1b, 70; 16, Et, Et, 3-CH2CH2NH2SO2Me, Nitroso,
220-30°/2, 4, 67, HCl, 218-19°, 1a, 85; 16a, Et, Et,
3-CH2CH2NH2MeSO2Me, Azo, ..., 7, ..., H2SO4, 138-40°, 3a, 52; 17, Et,
Et, 3-Cl, Azo, ..., 7, ..., HCl, 232° (decompn.), 3c, 58; 18, Et,
Et, 2-MeO, Azo, ..., 7, ..., 0.5H2SO4, 183-5°, 3c, 78; 19, Et, Et,
5.2-Me(MeO), Azo, NHAc, 2HCl, 228° (decompn.), 2a, 79; ..., m.
128-9°, 8, 55; 20, Et, Et, 3-OH, Azo, ..., 7, ..., HCl,
201-3°, 3a, 57; 21, Et, Et, 3-OMe, Azo, ..., 7, ..., HCl,
208-9.5°, 2c, 79; 22, Et, Et, 3-OEt, Nitroso, 146-8°/4,
4, 0.5H2SO4.H2O, 144-6°, 1c, 43; 23, Et, Et, 2-NH2, Nitro, ...,
6, ..., 2HCl, 235° (decompn.), 3c, 76; 24, Et, Et, 2-NHAc2, Nitro,
103-4°, 6, 79; ..., (hexane); 25, Et, Et, 3-NH2, Nitro, ...,
6, ..., H2SO4, 203-5°, 3a, 79; 26, Et, Et, 3-NHAc, Nitro,
100-1°(C6H6), 6, 83; 27, Et, Et, 3-NHSO2Me, Nitroso, ..., 5, ...,
HCl, 232°, 3a, 88; ..., Azo, ..., 7, ..., 28, Et, Et, 3-NHET, Nitro,
..., 6, ..., H2SO4.0.5H2O, 178-80° (decompn.), 3d, 43; 29, Et, Et,
3-NH2, Nitro, ..., 6, ..., H2SO4.H2O, 107-9°, 3d, 68; 30, Me,
CH2CH2NH2SO2Me, 3-Me, Nitroso, ..., 7, ..., H2SO4, 184-5.5°, 3a, 67;
31, Et, CH2CH2OH, ..., Nitroso, 148-60°/1, 4, 90, 0.5H2SO4.H2O,
179-80°, 1a, 74; 32, Et, CH2CH2OH, 3-Me, Nitroso, 148°/2, 4,
53, H2SO4.H2O, 150-3°, 1a, 78; 32a, Et, CH2CH2OMe, ..., Azo, ...,
7, ..., 0.5H2SO4, 187-9°, 3a, 81; 33, Et, CH2CH2OEt, ..., Nitroso,

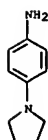
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 163-8°/7, 4, 36, 2HCl, 198-9° (decompn.), 1b, 64; 34, Et, CH2CH2NH2, ... Compd. 35, ... 2HCl, >250°, 2b, 50; 35, Et, CH2CH2NH2, ... Nitroso, 190-5°/1, 5, 86, 2HCl, 177-80°, 1b, 26; 35a, Et, CH2CH2NH2, 3-OEt, Nitroso, ... 5, ... H2C2O4, ... 3a, 76; 36, Et, CH2CH2NH2SO2Me, ... Nitroso, m. 67.5-8.5°, 5, ... 2HCl, 200° (decompn.), 3a, 75; ... H2SO4, 153-5°, 1d, 85; 37, Et, CH2CH2NH2SO2Me, 3-Me, Nitroso, m. 91-1.5°, 4, 5, 92, 91, H2SO4, 168-9°, 1d, 3a, 92, 91; ... 1.5H2SO4.H2O, 125-30°;
 38, Et, CH2CH2NH2SO2Me, 3-EtO, Nitroso, ... 5, ... H2C2O4, 87.5-90°, 3a, 78; 39, Et, CH2CH2NH2SO2Me, ... Nitroso, 205°/1, 4, ... 0.5H2SO4, 182°, 1a, 91; 40, Et, CH2CH2NH2SO2Me, 3-Me, Nitroso, m. 85-6°, 4, 5, 74, 0.5H2SO4.H2O, 148.5-50°, 33, 82; 41, Et, CH2CH2NH2SO2Me, 3-OEt, Nitroso, ... 5, ... H2C2O4, 149-51°, 3a, 77; 42, Et, CH2CONH2, ... Nitroso, ... 5, ... HCl, 252-3° (decompn.), 33, 57; 43, Et, CH2CONH2, 3-Me, Azo, m. 127-8°, 9, 79; 44, Et, Tetrahydrofurfuryl, Azo, 156-9°/1, 9, 54, 0.5H2SO4, 165-9° (decompn.), 1a, ... 45, Et, Tetrahydrofurfuryl, 3-Me, Nitroso, 171-3°/3, 4, Poor, 0.5H2SO4, 136-8°, 1a ... B. (p-Aminophenyl) Derivs. of Heterocyclic Bases; p-H2NC6H4NR1R2; 46, 1-Pyrrolidyl, ... 0.5H2SO4, >255°, ... 47, 1-Piperidyl, ... 0.5H2SO4, >250°, ... 48, 1-Piperidyl, 3-Me, ... H2SO4, 179.5-80.5°, ... 49, 4-Morpholinyl, ... 0.5H2SO4.H2O, 250° (decompn.), ... 50, 4-Morpholinyl, 3-Me, ... 0.5H2SO4, 214-15.5°, 3a, 54; 51, 1-Piperazyl, ... Nitro, m. 119-20.5°, 6, 72; C. Amino Derivs. of Heterocyclic Bases; 52, Compd., 5-Amino-1-[2-(methylsulfonylamido)ethyl]indoline, Azo, 7, ... 0.5H2SO4, 235°, 3a, 79; 53, 6-Amino-1-ethyl-1,2,3,4-tetrahydroquinoline, Azo, 7, ... 0.5H2SO4, 252°, 3a, 86; 54, 6-Amino-1,2,3,4-tetrahydro-1-[2-(methylsulfonylamido)ethyl]quinoline, Azo, m. 116-19°, 7, ... 0.5H2SO4, 179-82°, 3a, 91; 54a, 6-Amino-1,2,3,4-tetrahydro-7-methyl-1-[2-(methylsulfonylamido)ethyl]quinoline, Azo, m. 150-2°, 7, 67, 0.5H2SO4.H2O, 205-12°, 3a, 71; 55, 9-Aminojulolidine(9-amino-1,2,3,4,6-hexahydrobenzo[1]quinolinizine), Azo, ... 7, ... 0.5H2SO4, 242° (decompn.), 3a, 82; Table II: p-Nitroso-N,N-dialkylanilines, p-ONC6H4NR1R2; No., R1, R2, Substituent on aniline nucleus, Method, Yield (1), M.p.; 2-Me, Et, 10a; 3-Me, Et, 10b; 4-Me, Bu, 10b; 6, Et, Pr, 10b; 12, Et, Et, 3,5-Me2, 10a, 44, 103-4°; 15, Et, Et, CH2CH2NHAc, 10b; 16, Et, Et, CH2CH2NHAc, 10a, b, 65 as HCl, 81-2.5°; ... 100 from HCl; 22, Et, 3-OEt, 10b; 27, Et, Et, 3-NH2SO2Me, 10a, b, 71, 81-2°; ... 109-11° (polymorphic); 30, Me, CH2CH2NH2SO2Me, 3-Me, 10a, 83, 133-4°; 31, Et, CH2CH2OH, 10b; 32, Et, CH2CH2OH, 3-Me, 10b; 33, Et, CH2CH2OEt, 10b; 35, Et, CH2CH2NHAc, 10a, 83, 106-7°; 35a, Et, CH2CH2NHAc, 3-OEt, 10a, 100, 141-2°; 36, Et, CH2CH2NH2SO2Me, 10a, 83, 106-7°; 37, Et, CH2CH2NH2SO2Me, 3-Me, 10a, 75, 121-2°; 38, Et, CH2CH2NH2SO2Me, 3-OEt, 10a, 85, 112-13°; 39, Et, CH2CH2NH2SO2Me, 10a, 78, 93-4°; 40, Et, CH2CH2NH2SO2Me, 3-Me, 10a, 51, 74-6°; 41, Et, CH2CH2NH2SO2Me, 3-OEt, 10a, 61, 111-12°; 42, Et, CH2CONH2, 10a, 89, 168-9°; 45, Et, CH2CH2NH2SO2Me, 3-Me, 10b; Table III: A. p-Arylazo-N,N-dialkylanilines, p-R3N:NC6H4NR1R2; No., R1, R2, Substituent on aniline nucleus, R3, Method, Yield (1), M.p.; 9, Et, Et, 2-Me, 2,5-Cl2C6H3, 15, 48, 71-3°; 10a, Et, 3-Et, 2,5-Cl2C6H3, 15, 83, 87.5-8.5°; 11, Et, Et, 2,5-Me2, 2,5-Cl2C6H3, 15, 71, 93-4.5°; 12, Et, Et, 3-Me2, 2,5-Cl2C6H3, 15, 72, 164-5°; 13, Et, Et, 3-CH2OH, 2,5-Cl2C6H3, 15, 82, 128-8.5°; 14, Et, Et, 3-CH2NH2SO2Me, 2,5-Cl2C6H3, 15, 73, 144-5°; 14a, Et, Et, 3-CH2CH2OH, 2,5-Cl2C6H3, 15, 77, 110.5-11.5°; 16a, Et, Et, 3-CH2CH2NH2SO2Me, 2,5-Cl2C6H3, 15, 74, 143-4°; 17, Et, Et, 3-Cl,

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 29, 26a, not purified, 60; 40, 39, Et, C2H4NMeSO2Me, 3-Me, 33, 26a, not purified, 88; 41, 40, Et, C2H4NMeSO2Me, 3-OEt, 37, 26b, not purified, 60; 42, 41, Et, CH2CN, EtNHPh, 19, 133-4°/6, 75; 42, 42, Et, CH2CONH2, 41, 20, m. 113-15°, 73; 43, 43, Et, CH2CN, 3-Me, m-ETNH6CH4Me, 19, 107°/1, 79; 43, 44, Et, CH2CONH2, 3-Me, 43, 20, m. 124-5°, 56; 44, 45, Et, CH2C:CH:CH:CH:O, EtNHPh, 16b(3), 125-6°/3, 65; 44, 46, Et, CH2CH:CH2:CH2:CH2:O, 45, 31, 128-30°/3, 57; 45, 47, :CHC:CH:CH:CH:O, 3-Me, m-H2NC6H4Me, 30, 130-2°/3, 70; 45, 48, H, CH2CH:CH2:CH2:CH2:O, 3-Me, 47, 31, 132°/3, 75; 49, 49, Et, CH2CH:CH2:CH2:CH2:O, 3-Me, 48, 17, 125-8°/3, 61; B. Heterocyclic Bases; 52, 50, Compd., Indoline, Indole, 32, 94.5°/8, 71; ... HCl salt m. 222-4°; 52, 51, 1-[2-(Methylsulfonylamido)ethyl]indoline, 50, 16b(4), m. 70-1°, 93; 54, 52, 1,2,3,4-Tetrahydro-1-[2-(methylsulfonylamido)ethyl]quinoline, tetrahydroquinoline, 16b(4), m. 51-3°, 86; 54a, 53, 1,2,3,4-Tetrahydro-7-methyl-1-[2-(methylsulfonylamido)ethyl]quinoline, 7-Me, 7-methyltetrahydroquinoline, 16b(4), 223°/1.5, 57; ... HCl salt, m. 185-6°;
 IT 218139-56-1, Pyrrolidine, 1-(p-aminophenyl)-, sulfate (preparation of)
 RN 218139-56-1 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)-, sulfate (1:1) (9CI) (CA INDEX NAME)

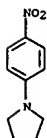
CH 1
 CRN 7664-93-9
 CMF H2 O4 S



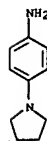
CH 2
 CRN 2632-65-7
 CMF ClO H14 N2



L8 ANSWER 1702 OF 1713 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
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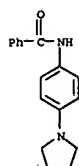


RN 216670-47-2 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

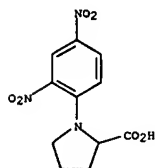


● HCl

RN 857422-36-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



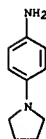
L8 ANSWER 1705 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1951:37852 CAPLUS
DOCUMENT NUMBER: 45:37852
ORIGINAL REFERENCE NO.: 45:6456h-1
TITLE: A reversed-phase partition chromatogram using chlorinated rubber
AUTHOR(S): Partridge, S. M.; Swain, T.
CORPORATE SOURCE: Cambridge Univ., UK
SOURCE: Nature (London, United Kingdom) (1950), 166, 272-3
CODEN: NATUAS; ISSN: 0028-0836
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB N-2,4-Dinitrophenyl derivs. of various amino acids were separated by partition chromatog. with 0.2 M citrate-phosphate buffer as the flowing solvent on columns prepared by filtering a slurry of 10 g. chlorinated rubber (Alloprene) in 4 cc. of a suspension of BuOH in buffer saturated with BuOH.
not Rates of movement depended on pH. Derivs. of aromatic amino acids were fully eluted, and dinitrophenylglycine was partly decomposed
IT 10200-25-6, Proline, 1-(2,4-dinitrophenyl)- (identification of)
RN 10200-25-6 CAPLUS
CN Proline, 1-(2,4-dinitrophenyl)- (9CI) (CA INDEX NAME)



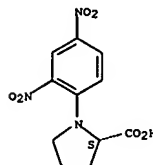
L8 ANSWER 1704 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1951:47132 CAPLUS
DOCUMENT NUMBER: 45:47132
ORIGINAL REFERENCE NO.: 45:8046h-1,8047a
TITLE: Pyrrolidine derivatives
INVENTOR(S): Weickmann, August
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik (I. G. Farbenindustrie AG "In Auflosung")
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 803903		19510412	DE	

GI For diagram(s), see printed CA Issue.
AB Pyrrolidine derivs., useful as intermediates in the preparation of dyes, artificial resins, auxiliary agents for textiles, and pharmaceuticals are prepared by treating 1,4-dihalobutanes with diamines containing at least 1 primary NH2 radical or with primary hydroxylamines: XCH2CH2CH2CH2X + H2NA → AN.CH2.CHR.CHR.CH2.2 HX (R = H, OH, or an indifferent substituent; X = halogen; A = NH2, hydroxyalkyl, -aryl or -aralkyl group).
Adding Cl(CH2)4Cl (I) 250 with stirring to H2N(CH2)6NH2 (II) 500 at 100° under conditions so as not to exceed a temperature of 110°, heating the mixture 1 h. at 110°, adding 50% aqueous KOH 450, vacuum-evaporating with separation of the precipitated KCl, and vacuum-distilling the residue gives 1-(6-aminoethyl)pyrrolidine, b14 126-7°, besides a minor amount of 1,6-di(1-pyrrolidyl)hexane, b15 165-6°. Similarly are prepared: 1-(p-aminophenyl)pyrrolidine, b16 180-5°, from I and p-C6H4(NH2); 1-(2-hydroxyethyl)pyrrolidine, b23 86-8°, from I and HOCH2CH2NH2; 1-(6-aminoethyl)-3,4-dihydroxypyrrrolidine, b1.3 189°, m. 84°, from [CH(OH)CH2Br]2 (III) and II; 1-(2-aminoethyl)-3,4-dihydroxypyrrrolidine, b1.9 177-9°, from III and (CH2NH2)2.
IT 2632-65-7, Pyrrolidine, 1-(p-aminophenyl)- (preparation of)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L8 ANSWER 1706 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1951:36041 CAPLUS
DOCUMENT NUMBER: 45:36041
ORIGINAL REFERENCE NO.: 45:6160g-1,6161a
TITLE: Actinomycin. I. Amino acid content
AUTHOR(S): Dalglish, C. E.; Johnson, A. W.; Todd, A. R.; Vining, L. C.
CORPORATE SOURCE: Univ. Cambridge, UK
SOURCE: Journal of the Chemical Society, Abstracts (1950) 2946-52
CODEN: JCSAAZ; ISSN: 0590-9791
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C.A. 44, 2073a. "Antibiotic X-45" (I) (Lehr and Berger, C.A. 44, 1162h) forms bright red prisms. [α]_D 367° (EtOH, c 0.25); the formula is C41H58O11N8.5H2O (Waksman and Tishler, C.A. 36, 2883.8, suggested C41H56O11N8); absorption maximum at 2370-2400 and 4420-4440 Å. (E11cm. 238 and 161). Acid hydrolysis yields, in addition to other as yet unidentified products, L-threonine, sarcosine, D-valine, L-methylvaline, and L-proline. Details are given of the separation of the acids by paper chromatography and of their isolation and identification. I is shown to be different from the actinomycin C (II) of Brockmann and Grubhofer (C.A. 44, 6914c) by x-ray and infrared methods, as well as by parallel hydrolysis; II contains D-isoleucine or D-alloisoleucine in place of the D-valine which occurs in I; the general behavior of I and II suggests that they differ only in the amino acid content. N-(2,4-dinitrophenyl) sarcosine, yellow, m. 178°; N-(2,4-dinitrophenyl)-DL-proline, yellow, m. 189°.
IT 1655-55-6, Proline, 1-(2,4-dinitrophenyl)-, DL- (preparation of)
RN 1655-55-6 CAPLUS
CN L-Proline, 1-(2,4-dinitrophenyl)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.

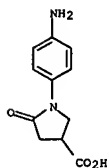


L8 ANSWER 1707 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1950:30126 CAPLUS
 DOCUMENT NUMBER: 44:30126
 ORIGINAL REFERENCE NO.: 44:5868d-1,5869a
 TITLE: Reaction of itaconic acid with primary amines
 AUTHOR(S): Paytash, Peter L.; Sparrow, Edward; Gathe, Joseph C.
 CORPORATE SOURCE: Xavier Univ., New Orleans, LA, USA
 SOURCE: Journal of the American Chemical Society (1950), 72, 1415-16
 CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 44:30126
 AB HO2CC(CH2)CH2CO2H, the amine, and H2O (in the ratio of 1 acid mol. to each NH2 group), refluxed 45-60 min., give the following 1-substituted 4-carboxy-2-pyrrolidones; in 32 preps. the dry reactants were fused 10 to 20 min.; the reactions carried out in H2O are indicated. Ph (I) (H2O), m.

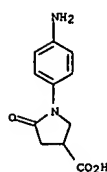
189-90°, 89%; o-tolyl, m. 152-3°, 62%; m-isomer, m. 129-30°, 85%; p-isomer, m. 187-8°, 88%; benzyl (H2O), m. 143-4°, 75%; cyclohexyl, m. 185-6°, 81%; (3,5-trimethylhexyl), m. 93-4°, 82%; anilino (H2O), m. 196-7°, 76%; (2-biphenyl), m. 166-7°, 79%; 4-isomer, m. 249-50° (decomposition), 91%; (1-naphthyl), m. 211°, 81%; 2-isomer, m. 213°, 98%; (p-phenylazophenyl), orange, m. 242-4° (decomposition), 68%; (o-chlorophenyl), m. 144-5°, 52%; m-isomer, m. 135-6°, 84%; p-isomer, m. 150-1°, 87% (also prepared from I and SO2Cl2); (p-bromophenyl), m. 172-3°, 71% (also prepared by bromination of I in AcOH); (2-methoxy-5-chlorophenyl), m. 197-8°, 83%; (2,4-dichlorophenyl), m. 75-6°, 43% (also prepared from I and SO2Cl2); 2,5-isomer, m. 194°, 42%; (m-nitrophenyl), yellow, m. 186-7°, 61%; p-isomer, yellow, m. 175-6°, 31% (also prepared from I and HNO3); (o-hydroxyphenyl), m. 182°, 79%; m-isomer, m. 216-17°, 79%; p-isomer, m. 201-2°, 77%; (o-methoxyphenyl), m. 165°, 60%; p-isomer, m. 172-3°, 86%; (3,4-dimethoxyphenethyl), m. 129°, 77%; (m-carboxyphenyl), m. 261°, 68%; p-isomer, m. 287-8° (decomposition), 67%; (p-aminophenyl) (II) (H2O), m. 209-10° (decomposition), 72% (also prepared by reduction of the NO2 compound with Sn and HCl) [HCl salt, yellow, m. 242-5° (decomposition)]; (p-sulfamylphenyl) (III), m. 212-14°, 74% [I and ClSO3H give the sulfonyl chloride, m. 273-5° (decomposition) (165-7° on rapid heating); hydrolysis gives the sulfonic acid, m. 335-7° (decomposition); NH3 gives III]; (p-guanylsulfamylphenyl), m. 240-3° (decomposition), 61%. 1,1'-(p-Phenylene)bis(4-carboxy-2-pyrrolidone), from p-C6H4(NH2)2 m. 296-7° (decomposition), 78% (this results in 91% yield from II and HO2CC(CH2)CH2CO2H and in 12% yield from p-C6H4(NH2)2 in H2O); 1,1'-(4,4'-biphenylene)bis(4-carboxy-2-pyrrolidone), from benzidine, m. 319-22° (decomposition), 77% (fusion of 1-(4'-amino-4-biphenyl)-4-carboxy-2-pyrrolidone and the acid gives 83%). No reaction occurred with 2,4,6-Cl3C6H2NH2, 2,4,6-Br3C6H2NH2, 4-O2NC6H4NH2, 2,4-(O2N)2C6H2, 2,5-(MeO)2C6H3NH2, 2-HO2CC6H4NH2, sulfathiazole, or p-H2NC6H4SO3H. The reaction therefore appears to be limited both by the nature and the position of the substituents in the amine.
 IT 834894-65-4, 3-Pyrrolidinecarboxylic acid, 1-(p-aminophenyl)-5-oxo- 346637-44-3, 3-Pyrrolidinecarboxylic acid, 1-[p-nitrophenyl]-5-oxo- 857425-11-7, 3-Pyrrolidinecarboxylic acid, 5-oxo-1-(p-phenylazophenyl)- 857425-22-0, 3-Pyrrolidinecarboxylic acid, 1-(p-aminophenyl)-5-oxo-, hydrochloride

L8 ANSWER 1707 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (5CI) (CA INDEX NAME)

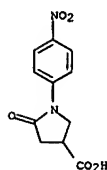


● HCl

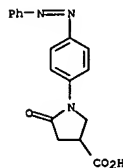
L8 ANSWER 1707 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (prepn. of)
 RN 346637-44-3 CAPLUS
 CN 3-Pyrrolidinecarboxylic acid, 1-(4-aminophenyl)-5-oxo- (9CI) (CA INDEX NAME)



RN 834894-65-4 CAPLUS
 CN 3-Pyrrolidinecarboxylic acid, 1-(4-nitrophenyl)-5-oxo- (9CI) (CA INDEX NAME)

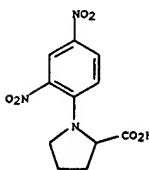


RN 857425-11-7 CAPLUS
 CN 3-Pyrrolidinecarboxylic acid, 5-oxo-1-(p-phenylazophenyl)- (5CI) (CA INDEX NAME)



RN 857425-22-0 CAPLUS
 CN 3-Pyrrolidinecarboxylic acid, 1-(p-aminophenyl)-5-oxo-, hydrochloride

L8 ANSWER 1708 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1950:27694 CAPLUS
 DOCUMENT NUMBER: 44:27694
 ORIGINAL REFERENCE NO.: 44:5422e-h
 TITLE: Use of buffered columns in the chromatographic separation of 2,4-dinitrophenyl amino acids
 AUTHOR(S): Blackburn, S.
 CORPORATE SOURCE: Wool Inds. Research Assoc. Torridon, Leeds, UK
 SOURCE: Biochemical Journal (1949), 45, 579-84
 CODEN: BIJQAK; ISSN: 0264-6021
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB cf. C.A. 43, 7379a. Terminal NH2 groups of proteins or polypeptides are condensed with 1,2,4-fluorodinitrobenzene and the colored N-2,4-dinitrophenyl (DNP) derivs. are obtained by acid hydrolysis. Difficulties in adsorbing these compds. were overcome by the use of silica gel columns buffered at different pH values. Generally, as the pH of the aqueous phase increases, the rate of movement of the DNP amino acids decreases. By using different solvents as the moving phase and silica gel columns buffered at different pH values with phosphate buffers, mixts. of DNP amino acids could be separated. Initial fractionation can be made on columns at pH 6.6 with ether as solvent. Long-chain DNP monoamino acids move rapidly down the column followed by the derivs. of glycine, threonine, and serine which can be collected and separated. The DNP-glutamic acid and DNP-aspartic acid move too slowly. These must be eluted with acidified ether and fractionated at pH 3.7 CHCl3 column. All the monoaminomonocarboxylic acids collected from the initial fractionation must be further separated at pH 5.95 on a buffer -10% propanol - cyclohexane column (slow-moving DNP amino acids) and at pH 6.6 on a buffer - 5% propanol - cyclohexane (fast-moving). Filter paper or powdered cellulose columns were not as good as the silica gel columns. Preparation of the DNP derivs. is described.
 IT 10200-25-6, Proline, 1-(2,4-dinitrophenyl)- (preparation and chromatog. of)
 RN 10200-25-6 CAPLUS
 CN Proline, 1-(2,4-dinitrophenyl)- (9CI) (CA INDEX NAME)



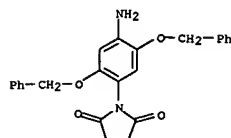
L8 ANSWER 1709 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1949:22210 CAPLUS
DOCUMENT NUMBER: 43:22210
ORIGINAL REFERENCE NO.: 43:4165b-g
TITLE: 5-Hydroxy-1,3,4-triazaindolizines as stabilizers for photographic emulsions
INVENTOR(S): Heimbach, Newton
PATENT ASSIGNEE(S): General Aniline & Film Corp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2450397		19480928	US	

GI For diagram(s), see printed CA Issue.
AB Products capable of suppressing chemical fog in photog. emulsions are obtained by condensing an alkoxymethylenemalononic acid ester with a 3-amino-1,2,4-triazole. The product is of the general formula I, where R may be H or a carbalkoxy group, R' may be H, Me, or a Ph group, and R'' is H, an alkyl, aryl, carboxy, or carbalkoxy group. Thus, 0.25 mol. (54 g.) of Et ethoxymethylenemalonate and 0.25 mol. (21 g.) of 3-amino-1,2,4-triazole in 40 cc. of glacial AcOH, on refluxing for 2 to 3 h., yield 5-hydroxy-6-carbomethoxy-1,3,4-triazaindolizine (II) which ppts. on cooling and is filtered off, washed and recrystd. from 50% MeOH. A carbalkoxy group in the 6-position of I may be replaced by H by saponification and decarboxylation. Thus, 2 g. of II, are warmed on a steam bath with 20 cc. of 5% NaOH for 1/2 h., cooled, diluted with 50 cc. H₂O, and acidified with 7 cc. of 5 N H₂SO₄. The mixture is boiled for 1/2 h., cooled, 2 cc. of 5 N NaOH are added, and the solution allowed to stand in an ice bath for 1 h., precipitating 5-hydroxy-1,3,4-triazaindolizine, which is recrystd. from boiling H₂O. Other derivs. of 1,3,4-triazaindolizine which have been prepared according to the above procedures are: 5-hydroxy-6-carbomethoxy-2-Me, 5-hydroxy-6-carbomethoxy-2-Ph, 5-hydroxy-2-Ph, 5-hydroxy-2,6-dicarbomethoxy, 5-hydroxy-6-carbomethoxy, 5-hydroxy-6-carbomethoxy-2-Pr, 5-hydroxy-6-carbomethoxy-7-Me, and 5-hydroxy-6-carbomethoxy-7-Ph. The stabilizer, in a suitable solvent, may be incorporated in the emulsion (25 to 500 mg. per l.), the film base or other layer, or may be applied to the otherwise finished photog. material by bathing. Cf. C.A. 40, 2079.9.
IT 860428-99-5, Succinimide, N-[4-amino-2,5-bis(benzyloxy)phenyl]- (preparation of)
RN 860428-99-5 CAPLUS
CN Succinimide, N-[4-amino-2,5-bis(benzyloxy)phenyl]- (SCI) (CA INDEX NAME)

L8 ANSWER 1709 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L8 ANSWER 1710 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN

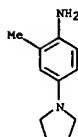
ACCESSION NUMBER: 1949:2565 CAPLUS
DOCUMENT NUMBER: 43:2565
ORIGINAL REFERENCE NO.: 43:594b-1,595a-c
TITLE: Oxidation processes. XXI. The autoxidation of the p-phenylenediamines
AUTHOR(S): DuValle, James E.; Glass, Dudley B.; Weissberger, Arnold
SOURCE: Journal of the American Chemical Society (1948), 70, 2223-33
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C.A. 41, 67991. p-H₂NC₆H₄NMe₂.HCl (170 g.), 190 g. p-MeC₆H₄SO₂Cl, and 400 ml. C₅H₅N, heated 2 hrs. on the steam bath, give 190 g. Me₂NC₆H₄NHSO₂Cl.H₂O (I); 145 g. I in 1 l. absolute EtOH, treated with 5 g. Na in 500 ml. absolute EtOH and 75 g. MeI, the mixture boiled 20 hrs., 800 ml. 5% alkali added, the EtOH removed in vacuo, and the residue diluted with 1.5 l. warm H₂O, gives 80 g. 4'-dimethylamino-N-methyl-p-toluenesulfonamide, m. 101-1.5°; hydrolysis of 41 g. I by heating 4 hrs. on the steam bath with 40 ml. AcOH and 80 ml. concentrated H₂SO₄ gives 19 g. p-Me₂NC₆H₄NMe₂.2HCl. PhNPr₂ (177 g.) in 1 l. H₂O and 250 ml. concentrated HCl at 0°, treated (5 min.) with 70 g. NaNO₂ in 200 ml. H₂O, and the mixture stirred 30 min. at 0-1° and made alkaline with 200 ml. concentrated NH₄OH, gives 85 g. N,N-dipropyl-4-nitrosoaniline (II), m. 43-4°; reduction of 20.6 g. II in 100 ml. EtOH at 60°/3 atmospheric and the product treated with 5.6 ml. concentrated H₂SO₄ in 25 ml. absolute EtOH, give 20 g. N,N-dipropyl-p-phenylenediamine sulfate. 2,4-Me(4-O₂NC₆H₄N:N)C₆H₃NH₂ (28.4 g.) in 100 ml. absolute EtOH, reduced over Raney Ni at 50°/3 atmospheric, the residue heated 1 hr. on the steam bath with 50 ml. Ac₂O, the reaction mixture diluted with 300 ml. H₂O, neutralized with Na₂CO₃, acidified with 50 ml. concentrated HCl, stirred 10 min., the filtrate made alkaline with 40% NaOH, extracted with ether, and the residue from the ether refluxed 1 hr. with 100 ml. 15% HCl, gives 12 g. 4-amino-N,N-dimethyl-o-toluidine-2HCl. Dinitrodurene (21 g.) in 100 ml. absolute EtOH, reduced over 3 g. Raney Ni at 60°/3 atmospheric and the filtrate treated with 50 ml. concentrated HCl, gives 15 g. diaminodurene-2HCl. 4-ClC₆H₄NO₂ (13.4 g.) and 12.1 g. pyrrolidine, heated 6 hrs. at 95-100° (sealed tube), give 10 g. 1-(4-nitrophenyl)pyrrolidine, m. 167-8°; reduction gives 9 g. 1-(4-aminophenyl)pyrrolidine-0.5H₂SO₄.2H₂O. Similarly, 22.4 g. 5,2-I(02N)C₆H₃Me gives 8 g. 1-(4-nitro-m-tolyl)pyrrolidine, m. 86-8°, reduction of which yields 5 g. 1-(4-amino-m-tolyl)pyrrolidine-0.5H₂SO₄. p-ClC₆H₄NO₂ (79 g.) and 100 ml. piperidine, heated 4 hrs. at 95°, give 70 g. 1-(p-nitrophenyl)piperidine, m. 103-5°; reduction of 20.6 g. gives 10 g. 1-(p-aminophenyl)piperidine-0.5H₂SO₄. 5,2-I(02N)C₆H₃Me (26.3 g.) gives 12.5 g.

L8 ANSWER 1710 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

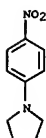
1-(4-nitro-m-tolyl)piperidine, m. 53-4°, which yields 14 g. 1-(4-amino-m-tolyl)piperidine-H₂SO₄. 4-ClC₆H₄NO₂ (80 g.) and 100 g. morpholine, heated 3.5 hrs. at 115-20°, give 85 g. 1-(p-nitrophenyl)morpholine, m. 150-1°; reduction of 20.8 g. gives 13 g. 1-(p-aminophenyl)morpholine-0.5H₂SO₄.H₂O. 5,2-I(02N)C₆H₃Me (80 g.) gives 33 g. 1-(4-nitro-m-tolyl)morpholine, m. 142-3°; reduction of 22.2 g. yields 20 g. 1-(4-amino-m-tolyl)morpholine-H₂SO₄. With the exception of diaminodurene (III), all the p-C₆H₄(NH₂)₂ autoxidize by a mechanism giving a β-type curve (C.A. 41, 67991); this type curve corresponds to the mechanism of Class II-A-3, in which the rate of autoxidation of the semiquinone enters into the rate reaction. Expts. with III and o-MeC₆H₄NEt₂ show that the rate in 20% EtOH is lower than in H₂O (possibly because of the increased stability of the semiquinone in EtOH). Results with p-H₂NC₆H₄NMe₂, p-MeNHC₆H₄NMe₂, and III show that the rate is 1st-order with respect to the initial concn. of the diamine; with p-MeNHC₆H₄NMe₂, the rate dependency with respect to O varies with the pH. The rate-pH relation is rather complicated and is illustrated by curves. It is believed that the drop in the rate of autoxidation of the p-C₆H₄(NH₂)₂ compds. between pH 7 and 10 is due to a decrease in the concn. of the semiquinone species SH₂+. N-Methylation increases the rate of autoxidation of p-HOC₆H₄NH₂; the rate of the di-Me deriv. is between that of the Me deriv. and the parent substance. The di-Me deriv. of p-C₆H₄(NH₂)₂ autoxidizes most readily at all pH values investigated; the tri-Me deriv. is next, and the rates of the asym. di-Me and the Me compds. lie between the higher methylated compds. and the parent substance. p-C₆H₄(NMe₂)₂ autoxidizes relatively fast at low pH but more slowly than the parent substance at high pH values. A comparison is given of the rates of autoxidation of various compds. at pH 11.5 and 8. 2632-65-7, Pyrrolidine, 1-(p-aminophenyl)- 143525-69-3, Pyrrolidine, 1-(4-amino-m-tolyl)- (and autoxidation velocity of)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



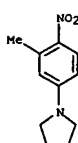
RN 143525-69-3 CAPLUS
CN Benzenamine, 2-methyl-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



IT 10220-22-1, Pyrrolidine, 1-(p-nitrophenyl)- 218139-59-4,
Pyrrolidine, 1-(4-nitro-m-tolyl)-
(preparation of)
RN 10220-22-1 CAPLUS
CN Pyrrolidine, 1-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



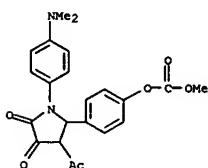
RN 218139-59-4 CAPLUS
CN Pyrrolidine, 1-(3-methyl-4-nitrophenyl)- (9CI) (CA INDEX NAME)



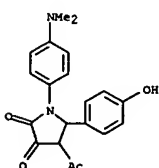
L8 ANSWER 1711 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
I, m. 236-7°. The products are useful as drugs or intermediates
for drugs.

IT 861035-84-9, 2,3-Pyrrolidinedione, 4-acetyl-1-(p-
dimethylaminophenyl)-5-(p-hydroxyphenyl)-, methyl carbonate
861035-85-0, 2,3-Pyrrolidinedione, 4-acetyl-1-(p-
dimethylaminophenyl)-5-(p-hydroxyphenyl)-
(preparation of)

RN 861035-84-9 CAPLUS
CN 2,3-Pyrrolidinedione, 4-acetyl-1-(p-dimethylaminophenyl)-5-(p-
hydroxyphenyl)-, methyl carbonate (4CI) (CA INDEX NAME)



RN 861035-85-0 CAPLUS
CN 2,3-Pyrrolidinedione, 4-acetyl-1-(p-dimethylaminophenyl)-5-(p-
hydroxyphenyl)- (4CI) (CA INDEX NAME)



L8 ANSWER 1711 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1939:55382 CAPLUS
DOCUMENT NUMBER: 33:55382
ORIGINAL REFERENCE NO.: 33:7963b-h
TITLE: Pyrrolidine derivatives
INVENTOR(S): Dohrn, Max; Nahme, Hans
PATENT ASSIGNEE(S): Schering A.-G.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 678152		19390711	DE	

AB Substitution products of 4,5-diketo-pyrrolidine (I) are obtained by
condensing an easily saponifiable derivative of a hydroxybenzaldehyde,
e. g.,
an acyloxybenzaldehyde or a hydroxybenzaldehyde alkyl-carbonic acid
ester,
with a primary aromatic, alicyclic or heterocyclic amine and an
α-keto carboxylic ester, e. g., an oxalacetic or acetylpyruvic ester.
The products may then be treated to remove the easily saponifiable group.
In a typical example, p-OHCC6H4OCOOME, PhNH2 and AcCH2COCOOEt are allowed
to stand in benzene solution to yield 1-phenyl-3-acetyl-2-(4'-
carbomethoxyoxyphenyl)-I, m. 205°, which yields
1-phenyl-3-acetyl-2-(4'-hydroxyphenyl)-I, m. 244-6°, when warmed
with caustic alkali solution. Similarly, p-OHCC6H4OCOOME, PhNH2 and
PhCOCH2COCOOEt yield 1-phenyl-3-benzoyl-2-(4'-carbomethoxyoxyphenyl)-I,
m.
238°, which yields 1-phenyl-3-benzoyl-2-(4'-hydroxyphenyl)-I, m.
248°, when saponified, and p-OHCC6H4OCOOME, PhNH2 and EtO-OCCOCH2COOEt
yield 1-phenyl-3-carbomethoxy-2-(4'-carbomethoxyoxyphenyl)-I, m.
168-70°, which yields 1-phenyl-2-(4'-hydroxyphenyl)-I-3-carboxylic
acid, decomposing 240°, when saponified. Examples are given also of the
preparation of (a) 1-(4'-carbomethoxyoxyphenyl)-3-acetyl-2-(4'-
carbomethoxyoxyphenyl)-I, m. 223°, which yields
1-(4'-carboxyphenyl)-3-acetyl-2-(4'-hydroxyphenyl)-I, m. 265°, when
saponified, (b) 1-(4'-dimethylaminophenyl)-3-acetyl-2-(4'-
carbomethoxyoxyphenyl)-I, m. 139-42°, and the corresponding
2-(4'-hydroxyphenyl) compound, m. 243°, (c) 1-(4'-iodophenyl)-3-
acetyl-2-(4'-carbomethoxyoxyphenyl)-I, m. 225°, and the
corresponding 2-(4'-hydroxyphenyl) compound, m. 255°, (d)
1-(3,4,5'-triiodophenyl)-3-acetyl-2-(4'-carbomethoxyoxyphenyl)-I, m.
230° (decomposition), and the corresponding 2-(4'-hydroxyphenyl)
compound,
m. 263° (decomposition), (e) 1-(2'-butoxy - 5' - pyridyl) - 3 - acetyl
- 2 - (4' - carbomethoxyoxyphenyl)-I, m. 100°, and the
corresponding 2-(4'-hydroxyphenyl) compound, m. 220°, (f)
1-(6'-quinolyl)-3-acetyl-2-(4'-carbomethoxyoxyphenyl)-I, decomposing
above
270°, and the corresponding 2-(4'-hydroxyphenyl) compound, m. above
260° (decomposition), (g) 1-cyclohexyl-3-acetyl-2-(4'-
carbomethoxyoxyphenyl)-I, m. 195-6°, and the corresponding
2-(4'-hydroxyphenyl) compound, m. 239°, (h) 1-phenyl-3-acetyl-2-
(2'-carbomethoxyoxyphenyl)-I, m. 171°, and the corresponding
2-(2'-hydroxyphenyl) compound, m. 198-200°, (i) 1-phenyl-3-acetyl-2-
(3'-carbomethoxyoxyphenyl)-I, m. 191°, and the corresponding
2-(3'-hydroxyphenyl) compound, m. 183° (j) 1-phenyl-3-acetyl-2-(4'-
acetoxypheyl)-I, m. 205-6°, and the corresponding
2-(4'-hydroxyphenyl) compound, (k)
1-phenyl-3-acetyl-2-(4'-benzyloxyphenyl)-

L8 ANSWER 1712 OF 1713 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1928:6307 CAPLUS
DOCUMENT NUMBER: 22:6307
ORIGINAL REFERENCE NO.: 22:770h-1,771a-c
TITLE: Study of the velocity of saponification of nitro- and
halophenylsuccinimides with respect to molecular
statics

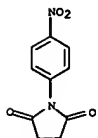
AUTHOR(S): Sanna, Andrea
SOURCE: Gazzetta Chimica Italiana (1927), 57, 761-71
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.
AB Earlier expts. by others have shown that the introduction of alkyl or
aryl

groups diminishes the stability of succinimides (cf. Rend. accad. Lincei
1894, 597), whereas the introduction of an electropositive group in this
substituent aryl group has the opposite effect (cf. Rend. accad. Lincei
1895, 351; Ber. 18, 1265, 2781; 19, 3197; J. Chemical Society 81,
787(1902); Z.
physik. Chemical 24, 221)). A series of phenylsuccinimides was
prepared, some
new and some already known, and their rates of saponification in EtOH
were determined
by the method of Anschütz and Miolati (Z. physik. Chemical 11, 749(1893);
Gazz. chim. ital. 23, 8; Ber. 26, 1689; Z. physik. Chemical 10, 96; J.
Chemical
Society 81, 787(1902)). Quant. data on these rates are given for all the
comps., those already known including PhN(C4H4O2), o-O2NC6H4N(C4H4O2),
m-O2NC6H4N(C4H4O2), p-O2NC6H4N(C4H4O2) and m-IC6H4N(C4H4O2). All
phenylsuccinimides, both those already known and the new ones, were
prepared
by heating succinic acid with the PhNH2 derivative, thus: (H2OCCH2)-2 +
H2NC6H4X → CO.CH2.CH2.CO.NC6H4X, and recrystg. from EtOH or water.
The following new phenylsuccinimides were prepared: p-I, pearl-gray, m.
86°; o-I, no m. p. given; p-Br, m. 171°; m-Br, m.
118°; o-Br, m. 91°; p-Cl, m. 170°; m-Cl, m.
142°; o-Cl, m. 175°. Based on the saponification detns., the
results show that the introduction of halogens or of the NO2 group, i.

e.,
of an electronegative group, considerably diminishes the stability, the
greatest effect being found by substitution in the o-position of
phenylsuccinimide. The rate of saponification, particularly for the o-
and
p-comps., increases with the atomic weight of the halogen substituent,
but
there is no simple relation evident. Furthermore the NO2 group, though
heavier than Cl, has a smaller effect than the Cl, in contrast to the
relative effects in the saponification of benzoic esters (cf. Z. physik.
Chemical 24,
221). On account of the numerous factors which govern the stability of
the mol., it is probable that different factors are predominant under
different conditions, and it is impossible at present to generalize and
foresee the resultant effect.

IT 35488-92-7, Succinimide, N-[p-nitrophenyl]-
(preparation of)
RN 35488-92-7 CAPLUS
CN 2,3-Pyrrolidinedione, 1-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



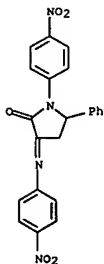
ACCESSION NUMBER: 1909:2203 CAPLUS
DOCUMENT NUMBER: 3:2203
ORIGINAL REFERENCE NO.: 3:433h-1,434a-g
TITLE: Dobner's Synthesis of α -Substituted Cinchonic Acids

AUTHOR(S): Borsche, W.
CORPORATE SOURCE: Gen. Chem. Inst., Univ. Göttingen
SOURCE: Ber. (1909), 41, 3884-94
DOCUMENT TYPE: Journal

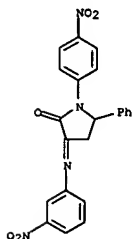
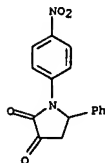
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB α -Phenyl-m-methylcinchonic acid, formula (I) below, is prepared from BzH, pyruvic acid, and m-toluidine, in presence of EtOH. Colorless, crystalline powder, m. 212-4°. Yield 38%. In AcOH solution yield about 26%. The corresponding hydroxy acid was obtained in a similar manner from m-aminophenol; crystalline powder, m. 333-4°. Yield 57%; in AcOH yield 34%. When heated it gives α -phenyl-m-hydroxyquinoline; pale yellow needles, m. 229-30°. Yield about 85%. α -Phenyl-m-chlorcinchonic acid, from m-chloraniline; colorless needles, m. and evolves gas 244-6°. Yield 104; in AcOH 25%. α -Phenyl-N-[m-chlorophenyl] α' , β' -diketopyrrolidone- β' -m-chloranil (II), formed together with the preceding compound; colorless needles, insol. in dilute alkali hydroxide, m. 199-200°. Yield about 14%; from AcOH yield about 3%. p-Chloraniline gives the p-chloranil, colorless needles, m. 203-4°. Yield 11.5%. From AcOH solution no anil was isolated. α -Phenyl-p-chlorcinchonic acid, formed together with the preceding compound; colorless, crystalline granules, darkens 225°, m. 243°. Yield 44; in AcOH yield 9%. α -Phenyl-p-acetocinchonic acid (III), from p-aminoacetophenone, appears to be formed only in AcOH; colorless needles with 0.5 H₂O, m. 200°. Yield about 20%. In EtOH, α -phenyl-N-[p-acetophenyl]- α' , β' -diketopyrrolidone- β' -p-acetoanil (IV) is produced; colorless needles, m. 238-9°. Yield about 8%. Neither o-chloranil or o-nitraniline react in the manner described above. The only product from m-nitraniline was the pyrrolidone-m-nitranil; yellow needles, m. and decomposes 212°. Hot HCl regenerates m-nitraniline. In EtOH, p-nitraniline forms α -phenyl-N-[p-nitrophenyl]- α' , β' -diketopyrrolidone (V), yellow needles, m. 188-9°. In AcOH or HCO₂H (d. 1.22) the corresponding p-nitranil is produced. Yellow, lustrous needles, m. darkens and decomposes 220-1°. These results indicate that the primary product of the condensation of pyruvic acid, aldehyde

and amine is possibly a γ -anilino- α -ketonic acid, PhNHCH₂CH₂COCO₂H, which then gives the hypothetical compounds (VI) and (VII). The former, by loss of H₂, yields the cinchonic acid (VIII), whereas (VII) reacts with a second mol. of amine to give the anil (IX).

IT 859958-38-6, 2-Pyrrolidone, 1-[p-nitrophenyl]-3-[p-nitrophenylimino]-5-phenyl- 859958-39-7, 2-Pyrrolidone, 1-[p-nitrophenyl]-3-[m-nitrophenylimino]-5-phenyl- 860759-53-1, 2,3-Pyrroledione, 4,5-dihydro-1-(p-nitrophenyl)-5-phenyl- (preparation of)
RN 859958-38-6 CAPLUS
CN 2-Pyrrolidone, 1-[p-nitrophenyl]-3-[p-nitrophenylimino]-5-phenyl- (ICI)
(CA INDEX NAME)



RN 859958-39-7 CAPLUS
CN 2-Pyrrolidone, 1-[p-nitrophenyl]-3-[m-nitrophenylimino]-5-phenyl- (ICI)
(CA INDEX NAME)



RN 860759-53-1 CAPLUS
CN 2,3-Pyrroledione, 4,5-dihydro-1-(p-nitrophenyl)-5-phenyl- (ICI) (CA INDEX NAME)

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ENTRY	SESSION
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* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
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* available and contains the CA role and document type information. *
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<http://www.cas.org/ONLINE/UG/regprops.html>

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FILE 'REGISTRY' ENTERED AT 05:57:58 ON 17 FEB 2006

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L3          0 S L1 FULL
L4          STRUCTURE UPLOADED
L5          50 S L4
L6          8658 S L4 FULL
L7          5008 S L6 AND CAPLIS/LC

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ring nodes :
1 2 3 4 5 6 9 10 11 12 13
chain bonds :
4-9 10-15 10-16 11-17 11-18 13-19 13-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-13 10-11 11-12 12-13
exact/norm bonds :
4-9 9-10 9-13
exact bonds :
10-11 10-15 10-16 11-12 11-17 11-18 12-13 13-19 13-20
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 9 :

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G1:H,CH3

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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS

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100.0% PROCESSED 8658 ITERATIONS 788 ANSWERS
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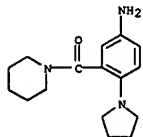
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L12 106 L10 NOT L11

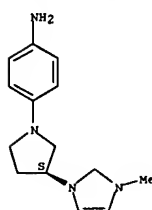
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L12 ANSWER 1 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 855173-70-5 REGISTRY
 ED Entered STN: 14 Jul 2005
 CN Piperidine, 1-[5-amino-2-(1-pyrrolidinyl)benzoyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H23 N3 O
 SR Chemical Library
 Supplier: ComGenex International Inc.
 LC STN Files: CHEMCATS



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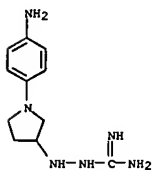
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 RN 852803-70-4 REGISTRY
 ED Entered STN: 23 Jun 2005
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 FS STEREOSEARCH
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 CI COM
 SR CA



Absolute stereochemistry.

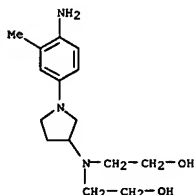
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L12 ANSWER 3 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852803-67-9 REGISTRY
 ED Entered STN: 23 Jun 2005
 CN Hydrazinecarboximidamide, 2-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C11 H18 N6
 CI COM
 SR CA



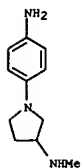
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L12 ANSWER 4 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852803-66-8 REGISTRY
 ED Entered STN: 23 Jun 2005
 CN Ethanol, 2,2'-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]imino]bis- (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H25 N3 O2
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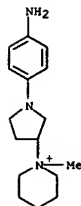
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 5 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852803-65-7 REGISTRY
 ED Entered STN: 23 Jun 2005
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 FS 3D CONCORD
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 CI COM
 SR CA

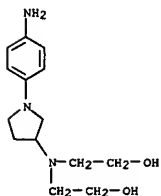


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L12 ANSWER 6 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852803-64-6 REGISTRY
 ED Entered STN: 23 Jun 2005
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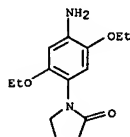


L12 ANSWER 7 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852803-63-5 REGISTRY
 ED Entered STN: 23 Jun 2005
 CN Ethanol, 2,2'-[1-([1-(4-aminophenyl)-3-pyrrolidinyl]imino)bis- (9CI) (CA INDEX NAME)
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 MF C14 H23 N3 O2
 CI COM
 SR CA



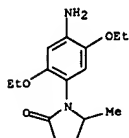
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L12 ANSWER 8 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
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 ED Entered STN: 26 Dec 2004
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 FS 3D CONCORD
 MF C14 H20 N2 O3
 CI COM
 SR CA



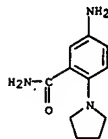
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L12 ANSWER 9 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 802302-66-5 REGISTRY
 ED Entered STN: 25 Dec 2004
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 FS 3D CONCORD
 MF C15 H22 N2 O3
 CI COM
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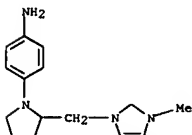
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 Supplier: Interchim
 LC STN Files: CHEMCATS



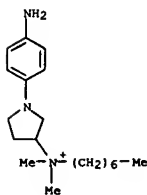
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 CI COM
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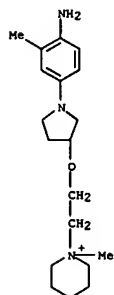


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L12 ANSWER 12 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
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 ED Entered STN: 07 Dec 2004
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-heptyl-N,N-dimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C19 H34 N3
 CI COM
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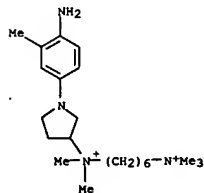
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 RN 792906-95-7 REGISTRY
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 FS 3D CONCORD
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 CI COM
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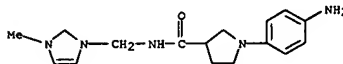
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 RN 791792-26-8 REGISTRY
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 (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H30 N3 O
 CI COM
 SR CA



L12 ANSWER 15 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 791586-21-5 REGISTRY
 ED Entered STN: 02 Dec 2004
 CN 1,6-Hexanediaminium, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-
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 FS 3D CONCORD
 MF C22 H42 N4
 CI COM
 SR CA

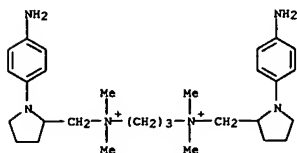


L12 ANSWER 16 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 791584-02-6 REGISTRY
 ED Entered STN: 02 Dec 2004
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 MF C16 H22 N5 O
 CI COM
 SR CA

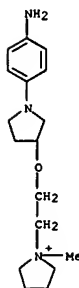


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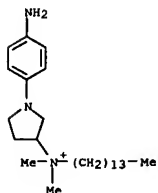
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 ED Entered STN: 30 Nov 2004
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 CI COM
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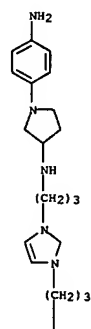
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 (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C17 H28 N3 O
 CI COM
 SR CA



L12 ANSWER 19 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 788157-29-9 REGISTRY
 ED Entered STN: 25 Nov 2004
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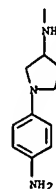


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 MF C29 H43 N8
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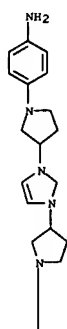
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PAGE 2-A



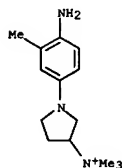
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L12 ANSWER 21 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 785775-69-1 REGISTRY
 ED Entered STN: 22 Nov 2004
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 CI COM
 SR CA

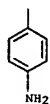


PAGE 1-A

L12 ANSWER 22 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 785048-34-2 REGISTRY
 ED Entered STN: 21 Nov 2004
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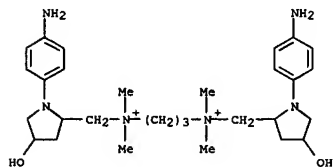


PAGE 2-A

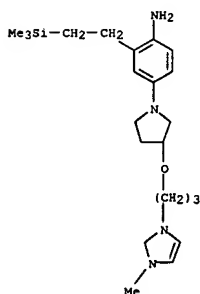


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L12 ANSWER 23 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 783303-77-5 REGISTRY
 ED Entered STN: 18 Nov 2004
 CN 1,3-Propanediaminium, N,N'-bis[1-(4-aminophenyl)-4-hydroxy-2-pyrrolidinylmethyl]-N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C29 H48 N6 O2
 CI COM
 SR CA



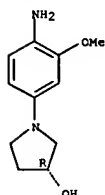
L12 ANSWER 24 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 782449-79-0 REGISTRY
 ED Entered STN: 17 Nov 2004
 CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-[(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C22 H37 N4 O Si
 CI COM
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L12 ANSWER 25 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 782441-13-8 REGISTRY
 ED Entered STN: 16 Nov 2004
 CN 3-Pyrrolidinol, 1-(4-amino-3-methoxyphenyl)-, (3R)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C11 H16 N2 O2
 CI COM
 SR CA

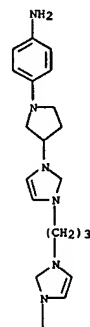
Absolute stereochemistry.



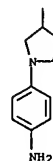
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 26 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 781613-57-8 REGISTRY
 ED Entered STN: 16 Nov 2004
 CN 1H-Imidazolium, 1,1'-[1,3-propanediyl]bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 MF C29 H38 N8
 CI COM
 SR CA

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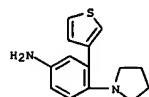


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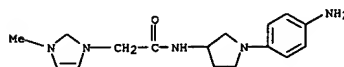
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L12 ANSWER 27 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 781600-80-4 REGISTRY
 ED Entered STN: 16 Nov 2004
 CN Benzenamine, 4-([1-pyrrolidinyl]-3-(3-thienyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C14 H16 N2 S
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

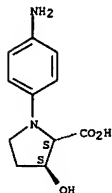
L12 ANSWER 28 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 780038-19-9 REGISTRY
 ED Entered STN: 14 Nov 2004
 CN 1H-Imidazolium, 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C16 H22 N5 O
 CI COM
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

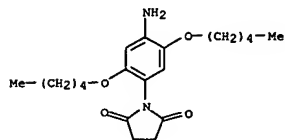
L12 ANSWER 29 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 780031-60-9 REGISTRY
 ED Entered STN: 14 Nov 2004
 CN L-Proline, 1-(4-aminophenyl)-3-hydroxy-, (3S)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C11 H14 N2 O3
 CI COM
 SR CA

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

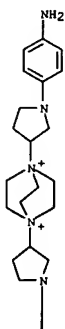
L12 ANSWER 30 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 780024-88-6 REGISTRY
 ED Entered STN: 14 Nov 2004
 CN 2,5-Pyrrolidinedione, 1-[4-amino-2,5-bis(pentyloxy)phenyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H30 N2 O4
 CI COM
 SR CA



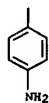
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 31 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 779324-26-4 REGISTRY
 ED Entered STN: 12 Nov 2004
 CN 1,4-Diazoniabicyclo[2.2.2]octane, 1,4-bis[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C26 H38 N6
 CI COM
 SR CA

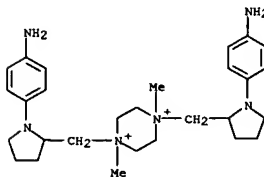
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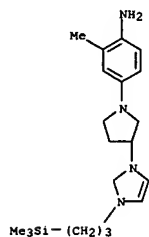
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L12 ANSWER 32 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 778574-74-6 REGISTRY
 ED Entered STN: 11 Nov 2004
 CN Piperazininium, 1,4-bis[1-(4-aminophenyl)-2-pyrrolidinylmethyl]-1,4-dimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C28 H44 N6
 CI COM
 SR CA

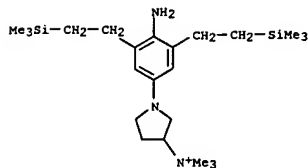


L12 ANSWER 33 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 778573-39-0 REGISTRY
 ED Entered STN: 11 Nov 2004
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]- (9CI) (CA INDEX NAME)
 MF C20 H33 N4 Si
 CI COM
 SR CA

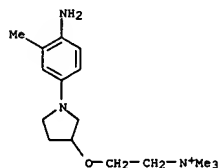


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

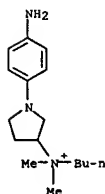
L12 ANSWER 34 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 777853-82-4 REGISTRY
 ED Entered STN: 10 Nov 2004
 CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H46 N3 Si2
 CI COM
 SR CA



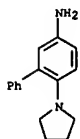
L12 ANSWER 35 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 775579-30-1 REGISTRY
 ED Entered STN: 07 Nov 2004
 CN Ethanaminium, 2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H28 N3 O
 CI COM
 SR CA



L12 ANSWER 36 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 775572-75-3 REGISTRY
 ED Entered STN: 07 Nov 2004
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H28 N3
 CI COM
 SR CA

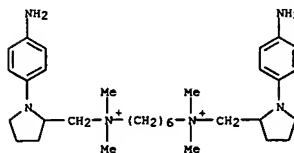


L12 ANSWER 37 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 775565-97-4 REGISTRY
 ED Entered STN: 07 Nov 2004
 CN [1,1'-Biphenyl]-3-amine, 6-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H18 N2
 CI COM
 SR CA

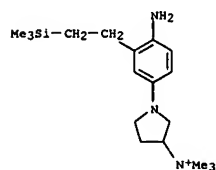


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

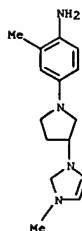
L12 ANSWER 38 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 774537-42-7 REGISTRY
 ED Entered STN: 04 Nov 2004
 CN 1,6-Hexanediaminium, N,N'-bis[[1-(4-aminophenyl)-2-pyrrolidinyl]methyl]-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C32 H54 N6
 CI COM
 SR CA



L12 ANSWER 39 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 772339-18-1 REGISTRY
 ED Entered STN: 31 Oct 2004
 CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H34 N3 Si
 CI COM
 SR CA

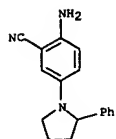


L12 ANSWER 40 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 771473-53-1 REGISTRY
 ED Entered STN: 28 Oct 2004
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C15 H21 N4
 CI COM
 SR CA



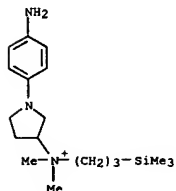
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L12 ANSWER 41 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 771414-77-8 REGISTRY
 ED Entered STN: 28 Oct 2004
 CN Benzonitrile, 2-amino-3-(2-phenyl-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C17 H17 N3
 CI COM
 SR CA

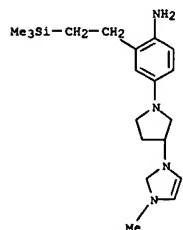


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 42 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 770707-15-8 REGISTRY
 ED Entered STN: 28 Oct 2004
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H34 N3 Si
 CI COM
 SR CA

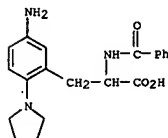


L12 ANSWER 43 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 769921-12-2 REGISTRY
 ED Entered STN: 27 Oct 2004
 CN 1H-Imidazolium, 1-[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C19 H31 N4 Si
 CI COM
 SR CA



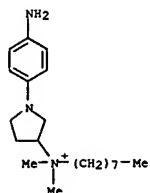
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L12 ANSWER 44 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 769864-54-2 REGISTRY
 ED Entered STN: 26 Oct 2004
 CN Phenylalanine, 5-amino-N-benzoyl-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H23 N3 O3
 CI COM
 SR CA

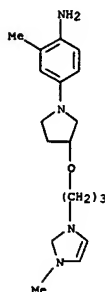


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 45 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 769113-06-6 REGISTRY
 ED Entered STN: 26 Oct 2004
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C20 H36 N3
 CI COM
 SR CA

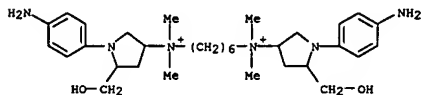


L12 ANSWER 46 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 767629-56-1 REGISTRY
 ED Entered STN: 24 Oct 2004
 CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C18 H27 N4 O
 CI COM
 SR CA

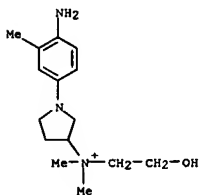


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

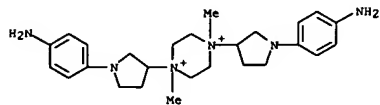
L12 ANSWER 47 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 767628-72-8 REGISTRY
 ED Entered STN: 24 Oct 2004
 CN 1,6-Hexanediaminium, N,N'-bis[1-(4-aminophenyl)-5-(hydroxymethyl)-3-pyrrolidinyl]-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C32 H54 N6 O2
 CI COM
 SR CA



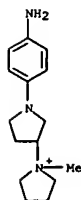
L12 ANSWER 48 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 765899-68-1 REGISTRY
 ED Entered STN: 20 Oct 2004
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H26 N3 O
 CI COM
 SR CA



L12 ANSWER 49 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 765898-84-8 REGISTRY
 ED Entered STN: 20 Oct 2004
 CN Piperazininium, 1,4-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-1,4-dimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C26 H40 N6
 CI COM
 SR CA

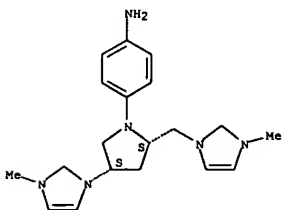


L12 ANSWER 50 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 765897-50-5 REGISTRY
 ED Entered STN: 20 Oct 2004
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H24 N3
 CI COM
 SR CA



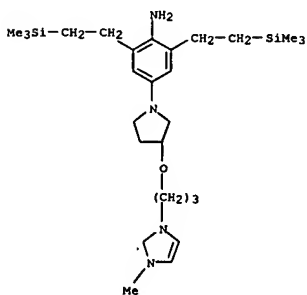
L12 ANSWER 51 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 764662-22-8 REGISTRY
 ED Entered STN: 18 Oct 2004
 CN 1H-Imidazolium, 1-[(3S,5S)-1-(4-aminophenyl)-5-[(3-methyl-1H-imidazolium-1-yl)methyl]-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C19 H26 N6
 CI COM
 SR CA

Absolute stereochemistry.



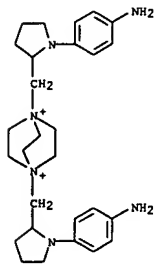
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L12 ANSWER 52 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 763926-60-9 REGISTRY
 ED Entered STN: 17 Oct 2004
 CN 1H-Imidazolium, 1-[3-[[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C27 H49 N4 O Si2
 CI COM
 SR CA



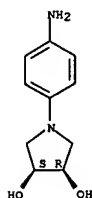
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L12 ANSWER 53 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 763925-76-4 REGISTRY
 ED Entered STN: 17 Oct 2004
 CN 1,4-Diazoniabicyclo[2.2.2]octane, 1,4-bis[[1-(4-aminophenyl)-2-pyrrolidinyl]methyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C28 H42 N6
 CI COM
 SR CA



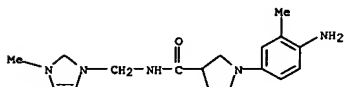
L12 ANSWER 54 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 762233-83-0 REGISTRY
 ED Entered STN: 14 Oct 2004
 CN 3,4-Pyrrolidinediol, 1-(4-aminophenyl)-, (3R,4S)-rel- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C10 H14 N2 O2
 CI COM
 SR CA

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 55 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 760943-07-5 REGISTRY
 ED Entered STN: 12 Oct 2004
 CN 1H-Imidazolium, 1-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]carbonyl]amino]methyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C17 H24 N5 O
 CI COM
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

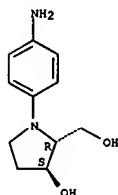
L12 ANSWER 56 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 760171-36-6 REGISTRY
 ED Entered STN: 11 Oct 2004
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C14 H19 N4
 CI COM
 SR CA



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

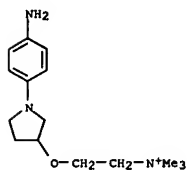
L12 ANSWER 57 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 756811-62-8 REGISTRY
 ED Entered STN: 05 Oct 2004
 CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)-3-hydroxy-, (2R,3S)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C11 H16 N2 O2
 CI COM
 SR CA

Absolute stereochemistry.

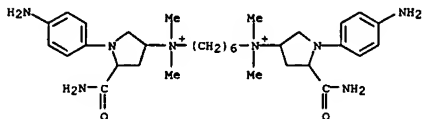


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

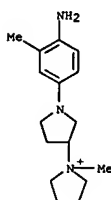
L12 ANSWER 58 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 755753-33-4 REGISTRY
 ED Entered STN: 01 Oct 2004
 CN Ethanaminium, 2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H26 N3 O
 CI COM
 SR CA



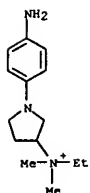
L12 ANSWER 59 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 754976-91-5 REGISTRY
 ED Entered STN: 01 Oct 2004
 CN 1,6-Hexanediaminium, N,N'-bis[5-(aminocarbonyl)-1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C32 H52 N8 O2
 CI COM
 SR CA



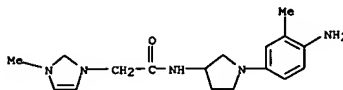
L12 ANSWER 60 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 753447-49-3 REGISTRY
 ED Entered STN: 29 Sep 2004
 CN 1,3'-Bispyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H26 N3
 CI COM
 SR CA



L12 ANSWER 61 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 753443-17-3 REGISTRY
 ED Entered STN: 29 Sep 2004
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C14 H24 N3
 CI COM
 SR CA

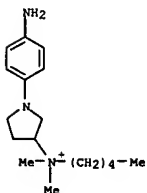


L12 ANSWER 62 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 750570-92-4 REGISTRY
 ED Entered STN: 24 Sep 2004
 CN 1H-Imidazolium, 1-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C17 H24 N5 O
 CI COM
 SR CA

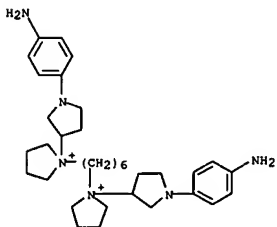


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

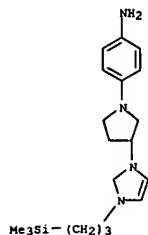
L12 ANSWER 63 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 749842-34-0 REGISTRY
 ED Entered STN: 23 Sep 2004
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C17 H30 N3
 CI COM
 SR CA



L12 ANSWER 64 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 749207-32-7 REGISTRY
 ED Entered STN: 22 Sep 2004
 CN 1,3'-Bipyrrolidinium, 1,1'-(1,6-hexanediyl)bis[1'-(4-aminophenyl)- (9CI) (CA INDEX NAME)
 MF C34 H54 N6
 CI COM
 SR CA

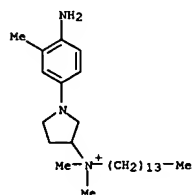


L12 ANSWER 65 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 749205-99-0 REGISTRY
 ED Entered STN: 22 Sep 2004
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]- (9CI) (CA INDEX NAME)
 MF C19 H31 N4 Si
 CI COM
 SR CA

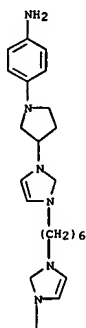


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L12 ANSWER 66 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 748769-49-5 REGISTRY
 ED Entered STN: 21 Sep 2004
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C27 H50 N3
 CI COM
 SR CA

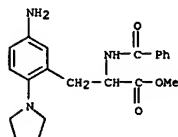


L12 ANSWER 67 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 748768-65-2 REGISTRY
 ED Entered STN: 21 Sep 2004
 CN 1H-Imidazolium, 1,1'-(1,6-hexanediyl)bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 MF C32 H44 N8
 CI COM
 SR CA



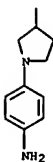
PAGE 1-A

L12 ANSWER 68 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 747352-70-1 REGISTRY
 ED Entered STN: 17 Sep 2004
 CN Phenylalanine, 5-amino-N-benzoyl-2-(1-pyrrolidinyl)-, methyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H25 N3 O3
 CI COM
 SR CA



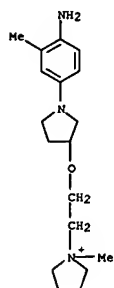
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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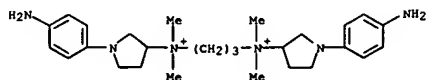


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

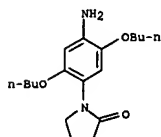
L12 ANSWER 69 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 742057-20-1 REGISTRY
 ED Entered STN: 10 Sep 2004
 CN Pyrrolidinium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-
 1-methyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H30 N3 O
 CI COM
 SR CA



L12 ANSWER 70 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 742056-52-6 REGISTRY
 ED Entered STN: 10 Sep 2004
 CN 1,3-Propanediaminium,
 N,N'-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N',N'-
 tetramethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C27 H44 N6
 CI COM
 SR CA



L12 ANSWER 71 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 741611-30-3 REGISTRY
 ED Entered STN: 08 Sep 2004
 CN 2-Pyrrolidinone, 1-(4-amino-2,5-dibutoxyphenyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H28 N2 O3
 CI COM
 SR CA



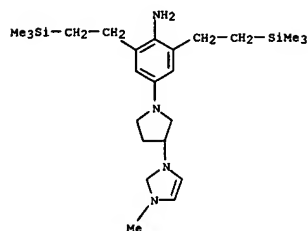
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 72 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 740798-08-7 REGISTRY
 ED Entered STN: 07 Sep 2004
 CN 1H-Imidazolium, 1-[3-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-
 methyl- (9CI) (CA INDEX NAME)
 MF C17 H25 N4 O
 CI COM
 SR CA



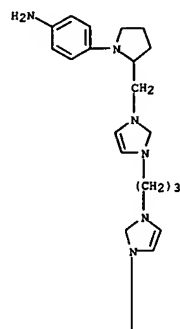
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L12 ANSWER 73 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 740082-89-7 REGISTRY
 ED Entered STN: 06 Sep 2004
 CN 1H-Imidazolium, 1-[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]-3-methyl- (9CI) (CA INDEX NAME)
 MF C24 H43 N4 Si2
 CI COM
 SR CA



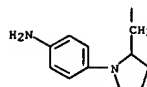
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L12 ANSWER 74 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 740082-21-7 REGISTRY
 ED Entered STN: 06 Sep 2004
 CN 1H-Imidazolium, 1,1'-[(1,3-propanediyl)bis[3-[[1-(4-aminophenyl)-2-pyrrolidinyl]methyl]- (9CI) (CA INDEX NAME)
 MF C31 H42 N8
 CI COM
 SR CA



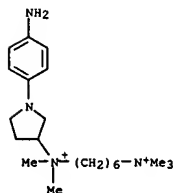
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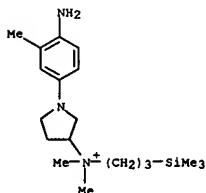


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

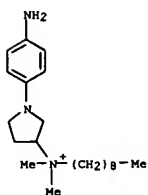
L12 ANSWER 75 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 737755-24-7 REGISTRY
 ED Entered STN: 02 Sep 2004
 CN 1,6-Hexanediaminium, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N'-pentamethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H40 N4
 CI COM
 SR CA



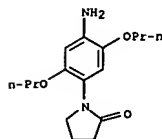
L12 ANSWER 76 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 736133-15-6 REGISTRY
 ED Entered STN: 31 Aug 2004
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C19 H36 N3 Si
 CI COM
 SR CA



L12 ANSWER 77 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 735258-78-3 REGISTRY
 ED Entered STN: 29 Aug 2004
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-nonyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C21 H38 N3
 CI COM
 SR CA

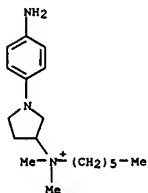


L12 ANSWER 78 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 735204-30-5 REGISTRY
 ED Entered STN: 29 Aug 2004
 CN 2-Pyrrolidinone, 1-(4-amino-2,5-dipropoxyphenyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H24 N2 O3
 CI COM
 SR CA



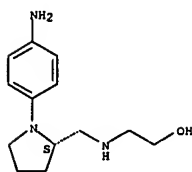
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 79 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 726696-50-0 REGISTRY
 ED Entered STN: 13 Aug 2004
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexyl-N,N-dimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H32 N3
 CI COM
 SR CA



L12 ANSWER 80 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 717822-00-9 REGISTRY
 ED Entered STN: 27 Jul 2004
 CN Ethanol, 2-[[[(2S)-1-(4-aminophenyl)-2-pyrrolidinyl]methyl]amino]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C13 H21 N3 O
 CI COM
 SR CA

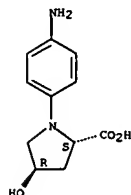
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

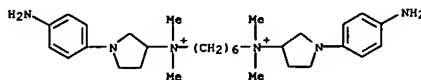
L12 ANSWER 81 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 714911-05-4 REGISTRY
 ED Entered STN: 23 Jul 2004
 CN L-Proline, 1-(4-aminophenyl)-4-hydroxy-, (4R)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C11 H14 N2 O3
 CI COM
 SR CA

Absolute stereochemistry.

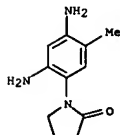


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 82 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 702636-37-1 REGISTRY
 ED Entered STN: 02 Jul 2004
 CN 1,6-Hexanediaminium, N,N'-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C30 H50 N6
 CI COM
 SR CA



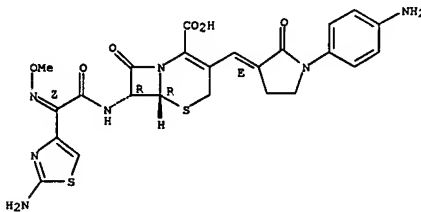
L12 ANSWER 83 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 696625-78-2 REGISTRY
 ED Entered STN: 21 Jun 2004
 CN 2-Pyrrolidinone, 1-(2,4-diamino-5-methylphenyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C11 H15 N3 O
 SR Chemical Library
 Supplier: Chemical Block Ltd.
 LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 84 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 687990-14-3 REGISTRY
 ED Entered STN: 31 May 2004
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[(E)-[1-(4-aminophenyl)-2-oxo-3-pyrrolidinylidene]methyl]-7-[(2Z)-(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-, (6R,7R)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C24 H23 N7 O6 S2
 CI COM
 SR CA

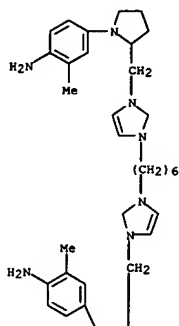
Absolute stereochemistry.
 Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 85 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 686262-80-6 REGISTRY
 ED Entered STN: 26 May 2004
 CN 1H-Imidazolium,
 1,1'-(1,6-hexanediyl)bis[3-[[1-(4-amino-3-methylphenyl)-2-
 pyrrolidinyl)methyl]- (9CI) (CA INDEX NAME)
 MF C36 H52 N8
 CI COM
 SR CA

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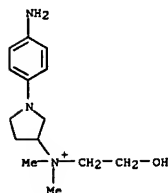


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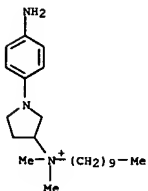


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

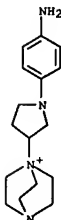
L12 ANSWER 86 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 683745-04-2 REGISTRY
 ED Entered STN: 19 May 2004
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-
 (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C14 H24 N3 O
 CI COM
 SR CA



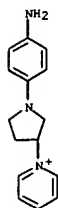
L12 ANSWER 87 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 682739-83-9 REGISTRY
 ED Entered STN: 17 May 2004
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-decyl-N,N-dimethyl- (9CI) (CA
 INDEX NAME)
 FS 3D CONCORD
 MF C22 H40 N3
 CI COM
 SR CA



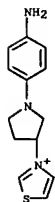
L12 ANSWER 88 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-08-8 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN 4-Aza-1-azoniabicyclo[2.2.2]octane, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-
 (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H25 N4
 CI COM
 SR CA



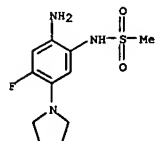
L12 ANSWER 89 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-04-4 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN Pyridinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H18 N3
 CI COM
 SR CA



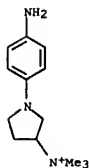
L12 ANSWER 90 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 607355-01-1 REGISTRY
 ED Entered STN: 21 Oct 2003
 CN Thiazolium, 3-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H16 N3 S
 CI COM
 SR CA



L12 ANSWER 91 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 489412-22-8 REGISTRY
 ED Entered STN: 13 Feb 2003
 CN Methanesulfonamide, N-[2-amino-4-fluoro-5-(1-pyrrolidinyl)phenyl]- (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C11 H16 F N3 O2 S
 SR Chemical Library

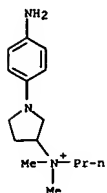


L12 ANSWER 92 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 435275-83-5 REGISTRY
 ED Entered STN: 01 Jul 2002
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H22 N3
 CI COM
 SR CA

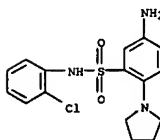


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 93 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 435275-63-1 REGISTRY
 ED Entered STN: 01 Jul 2002
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H26 N3
 CI COM
 SR CA

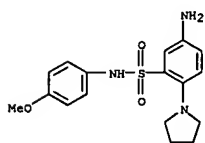


L12 ANSWER 94 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 351193-72-1 REGISTRY
 ED Entered STN: 13 Aug 2001
 CN Benzenesulfonamide, 5-amino-N-(2-chlorophenyl)-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H18 Cl N3 O2 S
 SR Chemical Library
 Supplier: Ambinter



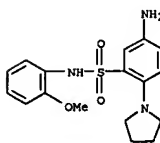
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 95 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 327092-85-3 REGISTRY
 ED Entered STN: 14 Mar 2001
 CN Benzenesulfonamide, 5-amino-N-(4-methoxyphenyl)-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C17 H21 N3 O3 S
 SR Chemical Library
 Supplier: Enamine
 LC STN Files: CHEMCATS



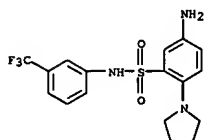
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 96 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 326619-12-9 REGISTRY
 ED Entered STN: 11 Mar 2001
 CN Benzenesulfonamide, 5-amino-N-(2-methoxyphenyl)-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C17 H21 N3 O3 S
 SR Chemical Library
 Supplier: Enamine
 LC STN Files: CHEMCATS



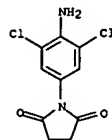
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 97 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 326182-65-4 REGISTRY
 ED Entered STN: 07 Mar 2001
 CN Benzenesulfonamide, 5-amino-2-(1-pyrrolidinyl)-N-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C17 H18 F3 N3 O2 S
 SR Chemical Library
 Supplier: Enamine
 LC STN Files: CHEMCATS



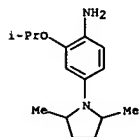
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 98 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 313261-32-4 REGISTRY
 ED Entered STN: 09 Jan 2001
 CN 2,5-Pyrrolidinedione, 1-(4-amino-3,5-dichlorophenyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C10 H8 Cl2 N2 O2
 SR Chemical Library
 Supplier: Nanosyn Combinatorial Synthesis Inc.
 LC STN Files: CHEMCATS



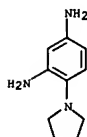
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 99 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 228268-72-2 REGISTRY
 ED Entered STN: 20 Jul 1999
 CN Benzenamine, 4-(2,5-dimethyl-1-pyrrolidinyl)-2-(1-methylethoxy)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H24 N2 O
 CI COM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 100 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 202279-20-7 REGISTRY
 ED Entered STN: 05 Mar 1998
 CN 1,3-Benzenediamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C10 H15 N3
 CI COM
 SR CA

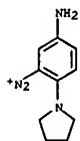


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 101 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 101152-84-5 REGISTRY
 ED Entered STN: 29 Mar 1986
 CN Benzenediazonium, 5-amino-2-(1-pyrrolidinyl)-,
 (T-4)-tetrachlorozincate(2-
) (2:1) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Zincate(2-), tetrachloro-, (T-4)-, bis[5-amino-2-(1-
 pyrrolidinyl)benzenediazonium] (9CI)
 MF C10 H13 N4 . 1/2 Cl4 Zn
 CI COM
 SR CA

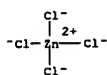
CM 1

CRN 101152-83-4
 CMF C10 H13 N4

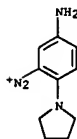


CM 2

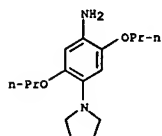
CRN 15201-05-5
 CMF C14 Zn
 CCI CCS



L12 ANSWER 102 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 101152-83-4 REGISTRY
 ED Entered STN: 29 Mar 1986
 CN Benzenediazonium, 5-amino-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C10 H13 N4
 CI COM
 SR CA

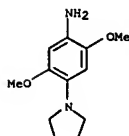


L12 ANSWER 103 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 71550-54-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzenamine, 2,5-dipropoxy-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H26 N2 O2
 LC STN Files: CHEMLIST
 Other Sources: NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



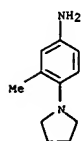
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 104 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 71230-75-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzenamine, 2,5-dimethoxy-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C12 H18 N2 O2
 LC STN Files: CHEMLIST
 Other Sources: NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



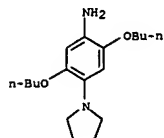
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 105 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 68155-75-9 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzenamine, 3-methyl-4-(1-pyrrolidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)
 MF C11 H16 N2 . C1 H
 LC STN Files: CHEMLIST
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 CRN (16089-43-3)



● HCl

L12 ANSWER 106 OF 106 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 67828-47-1 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzenamine, 2,5-dibutoxy-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H30 N2 O2
 LC STN Files: CHEMLIST
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> fil caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
247.76	660.64

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-10.50

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=> d his

(FILE 'HOME' ENTERED AT 05:57:02 ON 17 FEB 2006)

FILE 'REGISTRY' ENTERED AT 05:57:58 ON 17 FEB 2006

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 0 S L1 FULL
L4 STRUCTURE UPLOADED
L5 50 S L4
L6 8658 S L4 FULL
L7 5008 S L6 AND CAPLUS/LC

FILE 'CAPLUS' ENTERED AT 05:59:55 ON 17 FEB 2006

L8 1713 S L7

FILE 'CAPLUS' ENTERED AT 06:01:30 ON 17 FEB 2006

FILE 'REGISTRY' ENTERED AT 06:01:32 ON 17 FEB 2006

L9 STRUCTURE UPLOADED
L10 788 S L9 FULL SUB=L6
L11 682 S L10 AND CAPLUS/LC
L12 106 S L10 NOT L11

FILE 'CAPLUS' ENTERED AT 06:04:24 ON 17 FEB 2006

=> s l11

L13 298 L11

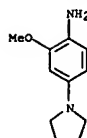
=> d ibib abs hitstr 200-298

L13 ANSWER 200 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1994:334783 CAPLUS
 DOCUMENT NUMBER: 120:334783
 TITLE: Method for formation of color image
 INVENTOR(S): Haijima, Akimitsu; Taniguchi, Masato
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 56 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

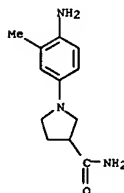
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05232654	A2	19930910	JP 1992-60992	19920218
JP 2840895	B2	19981224		
US 5328812	A	19940712	US 1993-19305	19930218
PRIORITY APPLN. INFO.:			JP 1992-60992	A 19920218

OTHER SOURCE(S): MARPAT 120:334783
 GI For diagram(s), see printed CA issue.
 AB In a method for photog. color imaging, a silver halide color photog. material, possessing a layer containing at least one acylacetamide yellow coupler having an acyl group Q (R = monovalent group; Q together with the C atom represent nonmetal atoms required to form a 3- to 5-membered heterocyclic ring possessing at least one hetero atom selected from N, O, and P; provided that R = H and it does not form a ring with Q), is subjected to color development by a development liquid containing an aromatic primary amine color developing agent represented by a phenylenediamine derivative [I; R1 = C1-6 linear or branched alkyl, C3-6 linear or branched alkyl hydroxyalkyl; R2 = C3-6 linear or branched (hydroxy)alkylene; R3 = H, C1-4 linear or branched alkyl or alkoxy] or a pyrrolidinylaniline derivative (II; R11, R12 = substituent; n = 0-8; m = 0-4; when n or m ≥ 2, R11 or R12 is same or different or R12 forms a ring) (one example for preparation given). This imaging method uses yellow couplers with excellent coloration and color image stability during storage in dark and thus dramatically increases color image stability under light irradiation and rapid processability as well as coloration and color image stability during storage in dark.
 IT 143525-62-6 143647-36-3 154306-78-2
 155085-71-5
 RL: USES (Uses)
 (color photog. developing agent, for color development of color photog. films containing acylacetamide yellow coupler)
 RN 143525-62-6 CAPLUS
 CN Benzenamine, 2-methoxy-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

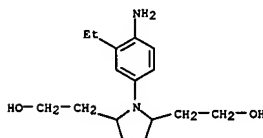
L13 ANSWER 200 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 143647-36-3 CAPLUS
 CN 2-Pyrrolidinedicarboxamide, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)

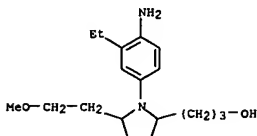


RN 154306-78-2 CAPLUS
 CN 2,5-Pyrrolidinediethanol, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)

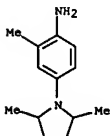


RN 155085-71-5 CAPLUS
 CN 2-Pyrrolidinepropanol, 1-(4-amino-3-ethylphenyl)-5-(2-methoxyethyl)- (9CI)
 (CA INDEX NAME)

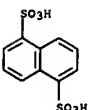
L13 ANSWER 200 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IT 155085-73-7P
 RL: PREP (Preparation)
 (preparation of, as color photog. developing agent, for color development of color photog. films containing acylacetamide yellow coupler)
 RN 155085-73-7 CAPLUS
 CN 1,5-Naphthalenedisulfonic acid, compd. with 4-(2,5-dimethyl-1-pyrrolidinyl)-2-methylbenzenamine (1:1) (9CI) (CA INDEX NAME)
 CM 1
 CRN 155085-72-6
 CMF C13 H20 N2



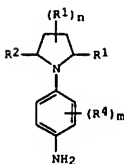
CM 2
 CRN 81-04-9
 CMF C10 H8 O6 S2



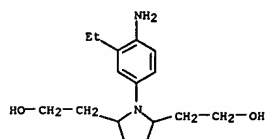
L13 ANSWER 201 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1994:334768 CAPLUS
 DOCUMENT NUMBER: 120:334768
 TITLE: Color developing agent, processing solution composition, and color image formation
 INVENTOR(S): Taniguchi, Masato; Oeki, Nobutaka
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05188550	A2	19930730	JP 1992-4088	19920113
US 5278034	A	19940111	US 1992-989556	19921211
PRIORITY APPLN. INFO.:			JP 1990-114603	A 19900427
			US 1991-691437	B2 19910425
			JP 1992-4088	A 19920113

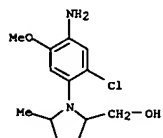
OTHER SOURCE(S): MARPAT 120:334768
 GI



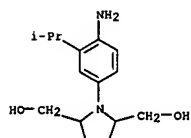
AB The title principal color developing agent is a pyrrolidino-substituted compound, (I) [R1 = substituent(s); n = 0-6; when n ≥ 2, R1 may be the same or different from each other; R2, R3 = alkyl; R4 = substituent; m = 0-4]. The processing solution contains 21 I. The title processing is effected with the above processing solution. The above developing agent is useful in rapid processing, and yields thermally durable cyan images.
 IT 154306-78-2 155293-28-0 155293-29-1
 155293-30-4 155293-31-5 155293-32-6
 155293-33-7 155293-34-8 155293-35-9
 155293-36-0 155293-37-1 155293-38-2
 RL: USES (Uses)
 (color photog. developing agent)
 RN 154306-78-2 CAPLUS
 CN 2,5-Pyrrolidinediethanol, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)



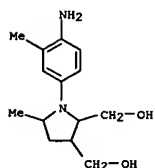
RN 155293-28-0 CAPLUS
CN 2-Pyrrolidinethanol, 1-([4-amino-2-chloro-5-methoxyphenyl]-5-methyl- (9CI) (CA INDEX NAME)



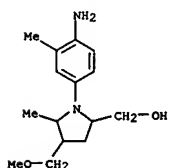
RN 155293-29-1 CAPLUS
CN 2,5-Pyrrolidinedimethanol, 1-([4-amino-3-(1-methylethyl)phenyl]- (9CI) (CA INDEX NAME)



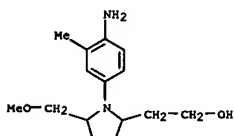
RN 155293-30-4 CAPLUS
CN 2-Pyrrolidinethanol, 1-([4-amino-3-(2-hydroxyethyl)phenyl]-5-methyl- (9CI) (CA INDEX NAME)



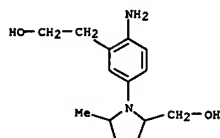
RN 155293-34-8 CAPLUS
CN 2-Pyrrolidinethanol, 1-([4-amino-3-methylphenyl]-4-(methoxymethyl)-5-methyl- (9CI) (CA INDEX NAME)



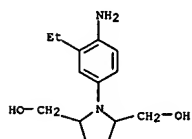
RN 155293-35-9 CAPLUS
CN 2-Pyrrolidinethanol, 1-([4-amino-3-methylphenyl]-5-(methoxymethyl)- (9CI) (CA INDEX NAME)



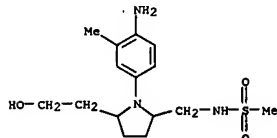
RN 155293-36-0 CAPLUS
CN Urea, ([1-([4-amino-3-methylphenyl]-5-methyl-2-pyrrolidinyl)methyl]- (9CI) (CA INDEX NAME)



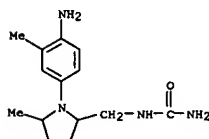
RN 155293-31-5 CAPLUS
CN 2,5-Pyrrolidinedimethanol, 1-([4-amino-3-ethylphenyl]- (9CI) (CA INDEX NAME)



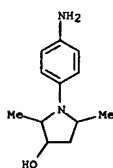
RN 155293-32-6 CAPLUS
CN Methanesulfonamide, N-([1-([4-amino-3-methylphenyl]-5-(2-hydroxyethyl)-2-pyrrolidinyl)methyl]- (9CI) (CA INDEX NAME)



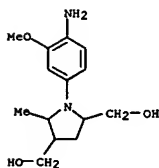
RN 155293-33-7 CAPLUS
CN 2,3-Pyrrolidinedimethanol, 1-([4-amino-3-methylphenyl]-5-methyl- (9CI) (CA INDEX NAME)



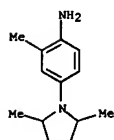
RN 155293-37-1 CAPLUS
CN 3-Pyrrolidinol, 1-([4-aminophenyl]-2,5-dimethyl- (9CI) (CA INDEX NAME)



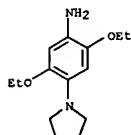
RN 155293-38-2 CAPLUS
CN 2,4-Pyrrolidinedimethanol, 1-([4-amino-3-methoxyphenyl]-5-methyl- (9CI) (CA INDEX NAME)



IT 155085-72-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(Preparation and use of, as color photog. developing agent)
RN 155085-72-6 CAPLUS
CN Benzenamine, 4-(2,5-dimethyl-1-pyrrolidinyl)-2-methyl- (9CI) (CA INDEX NAME)



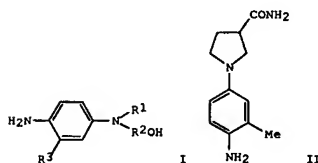
L13 ANSWER 202 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1994:259921 CAPLUS
 DOCUMENT NUMBER: 120:259921
 TITLE: Preparation of 2,5-diethoxy-4-pyrrolidinylbenzenediazonium chloride zinc chloride complex
 AUTHOR(S): Liu, Lizhong; Yu, Shanxin; Nie, Aihun
 CORPORATE SOURCE: Dep. Chem., Hunan Norm. Univ., Changsha, Peop. Rep. China
 SOURCE: Hunan Shifan Daxue Ziran Kexue Xuebao (1993), 16(1), 55-9
 CODEN: HSDXEL; ISSN: 1000-2537
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 AB The photosensitive diazo compound, 2,5-diethoxy-4-pyrrolidinylbenzenediazonium tetrachlorozincate was synthesized from 1-bromo-2,5-diethoxy-4-nitrobenzene. The structure of the complex was identified with IR, UV-visible, and ¹H NMR spectra and elements anal.
 The diazonium group characteristic absorption peak in the UV-visible spectra is at 389.8 nm and the temperature of decomposition is 142°.
 IT 68052-08-49
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and diazotization reaction of, with sodium nitrite and hydrochloric acid and zinc chloride)
 RN 68052-08-4 CAPLUS
 CN Benzenamine, 2,5-diethoxy-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



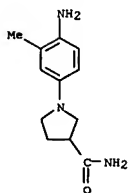
L13 ANSWER 203 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1994:257315 CAPLUS
 DOCUMENT NUMBER: 120:257315
 TITLE: Method for processing silver halide color photographic material
 INVENTOR(S): Obayashi, Keiji; Taniguchi, Masato; Saito, Naoki
 PATENT ASSIGNEE(S): Fujii Photo Film Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 72 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05216191	A2	19930827	JP 1992-47728	19920205
US 5380625	A	19950110	US 1993-14241	19930205
PRIORITY APPLN. INFO.:			JP 1992-47728	A 19920205

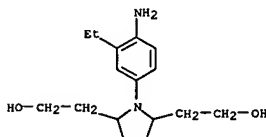
OTHER SOURCE(S): MARPAT 120:257315
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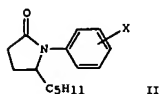
AB In the title method for processing the title material which contains a malondiamide coupler, said material is treated with a color developing solution containing phenylenediamine I [R1 = alkyl, etc.; R2 = alkylene, etc.; R3 = H, alkyl, etc.] or a pyrrolidinobenzene derivative (Markush structure given). II is an example of said pyrrolidinobenzene derivative The title material also contains a naphthol coupler. The title method gives high quality images.
 IT 143647-36-3 154306-78-2
 RL: USES (Uses) (color developing solution containing)
 RN 143647-36-3 CAPLUS
 CN 3-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



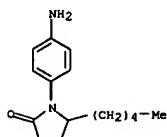
RN 154306-78-2 CAPLUS
 CN 2,5-Pyrrolidinediethanol, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)



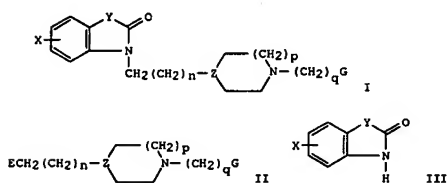
L13 ANSWER 204 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1994:217162 CAPLUS
 DOCUMENT NUMBER: 120:217162
 TITLE: Hydroarylation of 4-oxocarboxylic acid esters
 AUTHOR(S): Bespalova, G. V.; Lizak, I. V.; Sedavkina, V. A.
 CORPORATE SOURCE: Saratov. Gos. Univ., Russia
 SOURCE: Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i
 Khimicheskaya Tekhnologiya (1993), 36(8), 66-71
 CODEN: IVUKAR; ISSN: 0579-2991
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI



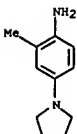
AB A process was developed for the preparation of 5-R-1-arylsubstituted-2-pyrrolidinones by reductive arylamination of Me(CH₂)₄COCH₂CH₂CO₂Et (I) with aromatic amines in the presence of com. Ni catalysts on kieselguhr.
 Thus, hydroamination of I with cyclohexylamine over a Ni catalyst gave 47% 1-cyclohexyl-5-pentyl-2-pyrrolidinone; a similar reaction with XC₆H₄NH₂ (X = o-, p-NH₂, o-, p-OH) gave pyrrolidinones II. The influence of various catalysts and other factors on the course of the reaction was studied.
 IT 73489-93-7P, 2-Pyrrolidinone, 1-(4-aminophenyl)-5-pentyl-
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 73489-93-7 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)-5-pentyl- (9CI) (CA INDEX NAME)



L13 ANSWER 205 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB The title compds. I (G = (un)substituted Ph, (un)substituted cyclohexyl;
 X = H, alkyl, aryl, aryloxy, CN, alkoxy, halogen, hydroxy, NO₂, CF₃, alkylsulfonamido, etc.; Y = CO, R₄CR₃; R₃, R₄ = H, alkyl, alkoxy; Z = N, CH₂; n = 1-3; q = 1, 2; R₃R₄ = cyclic acetal), useful as cholinesterase inhibitors in the treatment of cognitive dysfunction, are prepared by the condensation haloalkyl-substituted heterocyclic derivative II (E = halogen) with indole derivative III or by the corresponding condensation of haloalkyl-substituted indole derivs. with phenylalkyl-substituted piperazine derivs. Thus, 5-methyl-1H-indole-2,3-dione was condensed with 1-(2-chloroethyl)-4-(phenylmethyl)piperazine, and the condensate treated with ethanolic HCl, producing 5-methyl-1-[2-[4-(phenylmethyl)-1-piperidinyl]ethyl]-1H-indole-2,3-dione dihydrochloride (m.p. 270-275°, decomposition).
 IT 143525-69-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, in preparation of cholinesterase inhibitors)
 RN 143525-69-3 CAPLUS
 CN Benzenamine, 2-methyl-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

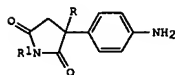


L13 ANSWER 205 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1993:625964 CAPLUS
 DOCUMENT NUMBER: 119:225964
 TITLE: Isatin derivative cholinesterase inhibitors and processes for their preparation
 INVENTOR(S): Boar, Bernard Robin; Cross, Alan John
 PATENT ASSIGNEE(S): Aktiebolaget Astra, Swed.
 SOURCE: PCT Int. Appl., 70 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

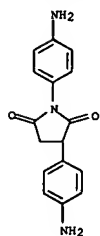
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9312085	A1	19930624	WO 1992-SE873	19921216
W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KR, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, RO, RU, SD, SE, UA				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, ML, MR, SN, TD, TG				
ZA 9209700	A	19930810	ZA 1992-9700	19921214
AU 9331759	A1	19930719	AU 1993-31759	19921216
AU 675055	B2	19970123		
EP 624156	A1	19941117	EP 1993-900490	19921216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 07502272	T2	19950309	JP 1992-510848	19921216
HU 69704	A2	19950928	HU 1994-1844	19921216
SK 278321	B6	19961002	SK 1994-734	19921216
PL 170736	B1	19970131	PL 1992-304124	19921216
CN 1079464	A	19931215	CN 1992-115358	19921218
CN 1034939	B	19970521		
NO 9402316	A	19940617	NO 1994-2316	19940617
FI 9402913	A	19940817	FI 1994-2913	19940617
US 5585378	A	19961217	US 1995-467695	19950606
PRIORITY APPLN. INFO.:			SE 1991-3752	A 19911218
			WO 1992-SE873	A 19921216
			US 1992-992407	B1 19921217
			US 1995-417724	B1 19950406

OTHER SOURCE(S): MARPAT 119:225964
 GI

L13 ANSWER 206 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1993:595104 CAPLUS
 DOCUMENT NUMBER: 119:195104
 TITLE: Some 1-, and 3-substituted 3-(4'-aminophenyl)pyrrolidine-2,5-diones as selective inhibitors of aromatase
 AUTHOR(S): Nazareth, W.; Ahmadi, M.
 CORPORATE SOURCE: Welsh Sch. Pharm., Univ. Wales Coll. Cardiff, Cardiff, UK
 SOURCE: Journal of Enzyme Inhibition (1993), 6(4), 317-30
 CODEN: ENINEG; ISSN: 0755-5093
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

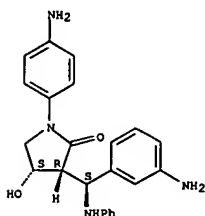


AB 1-Alkyl-3-(4-aminophenyl)pyrrolidine-2,5-diones (I, R = H; R₁ = C₃-7 alkyl) are potent inhibitors of aromatase in vitro, the 1-hexyl (K_i = 62nM) being about 100-fold more potent than aminoglutethimide (AG), and more selective in their ratio of aromatase:SCC inhibitory potency. The 1-pentyl, 1-hexyl and 1-heptyl derivs. were more stable to liver microsomal metabolism in vitro than AG possibly due to inhibition of the liver cytochrome P450s. 1,3-Dialkyl-3-(4-aminophenyl)pyrrolidine-2,5-diones (I, R = R₁ = C₃-7 alkyl) were synthesized by a novel method. Although the higher homologs (dipentyl and dihexyl) are more potent in vitro as inhibitors of aromatase than AG, they are less active than their 1-alkyl counterparts with the same alkyl substituent.
 IT 150508-31-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and aromatase inhibitory activity of, structure in relation to)
 RN 150508-31-9 CAPLUS
 CN 2,5-Pyrrolidinedione, 1,3-bis(4-aminophenyl)- (9CI) (CA INDEX NAME)



IT 147723-34-0P 147723-35-1P 147723-36-2P
147723-37-3P 147723-38-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 147723-34-0 CAPLUS
CN 2-Pyrrolidinone,
1-(4-aminophenyl)-3-[(3-aminophenyl)(phenylamino)methyl]-
4-hydroxy-, [3a(S*),4a]- (9CI) (CA INDEX NAME)

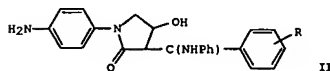
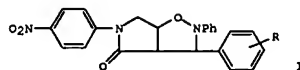
Relative stereochemistry.



RN 147723-35-1 CAPLUS
CN 2-Pyrrolidinone,
1-(4-aminophenyl)-3-[(4-bromophenyl)(phenylamino)methyl]-
4-hydroxy-, [3a(S*),4a]- (9CI) (CA INDEX NAME)

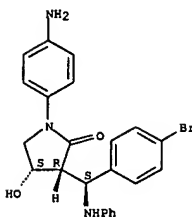
Relative stereochemistry.

L13 ANSWER 207 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:495386 CAPLUS
DOCUMENT NUMBER: 119:95386
TITLE: Reduction of 2-oxa-3,7-diazabicyclo[3.3.0]octanes
AUTHOR(S): Zharkikh, L. N.; Muzychenko, G. F.; Kul'nevich, V. G.;
Zavodnik, V. E.; Pushkareva, K. S.; Golovko, G. V.;
Ignatenko, A. V.
CORPORATE SOURCE: Krasnodar. Politekh. Inst., Russia
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1992), (7),
890-4
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI



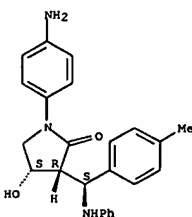
AB Reduction of the title compds. I (R = H, 3-O2N, 4-Br, 4-Me, 4-MeO, 4-Me2N) by hydrazine hydrate in presence of Raney Ni gave 51-74% of the corresponding amino alcs. II. The structure of II (R = H) was confirmed by x-ray anal.
IT 147723-33-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and crystal and mol. structure of)
RN 147723-33-9 CAPLUS
CN 2-Pyrrolidinone,
1-(4-aminophenyl)-4-hydroxy-3-[phenyl(phenylamino)methyl]-
[3a(S*),4a]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



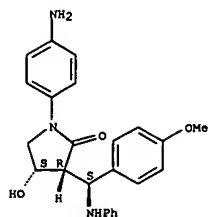
RN 147723-36-2 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)-4-hydroxy-3-[(4-methylphenyl)(phenylamino)methyl]-, [3a(S*),4a]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



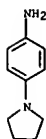
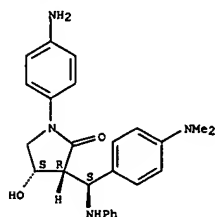
RN 147723-37-3 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)-4-hydroxy-3-[(4-methoxyphenyl)(phenylamino)methyl]-, [3a(S*),4a]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 147723-38-4 CAPLUS
 CN 2-Pyrrolidinone,
 1-(4-aminophenyl)-3-[[4-(dimethylamino)phenyl](phenylamino)methyl]-4-hydroxy-, {3a(S*),4a}- (9CI) (CA INDEX NAME)

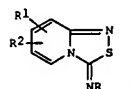
Relative stereochemistry.



L13 ANSWER 208 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1993:449396 CAPLUS
 DOCUMENT NUMBER: 119:49396
 TITLE: Preparation of 3-arylimino-3H-[1,2,4]thiadiazolo[4,3-a]pyridines as anti-allergics
 INVENTOR(S): Friebe, Walter Gunar; Wilhelms, Otto Henning
 PATENT ASSIGNEE(S): Boehringer Mannheim G.m.b.H., Germany
 SOURCE: Ger. Offen., 8 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

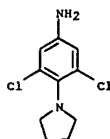
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4131579	A1	19930325	DE 1991-4131579	19910923
WO 9306109	A1	19930401	WO 1992-EP2142	19920917
W: AU, BG, BR, CA, CS, FI, HU, JP, KR, NO, PL, RO, RU, US				
FW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
AU 9225600	A1	19930427	AU 1992-25600	19920917
EP 605493	A1	19940713	EP 1992-919432	19920917
EP 605493	B1	20011205		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE				
JP 06510773	T2	19941201	JP 1993-505776	19920917
JP 3244699	B2	20020107		
AT 210135	E	20011215	AT 1992-919432	19920917
US 5447934	A	19950905	US 1994-204391	19940318
			DE 1991-4131579	A 19910923
PRIORITY APPLN. INFO.:			WO 1992-EP2142	A 19920917

OTHER SOURCE(S): MARPAT 119:49396
 GI



AB Title compds. [I; R = (substituted) (unsatd.) carbocyclic or heterocyclic group; R1, R2 = H, halo, alkyl; or adjacent R1R2 = CH:CHCH:CH] were prepared as antiasthmatics (no data). Thus, 2-aminopyridine was cyclocondensed with Cl3CSCl and the product condensed with 2-aminothiazole to give I (R = 2-thiazolyl, R1 = R2 = H).
 IT 2632-65-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, in preparation of anti-allergic)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 209 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1993:222703 CAPLUS
 DOCUMENT NUMBER: 118:222703
 TITLE: Synthesis and photographic characteristics of E-[(3,5-dichloro-4-N-allylphenyl)diazotert-butyl sulfides heterocyclophenyl]diazotert-butyl sulfides
 AUTHOR(S): Chen, Yizhao; Xiao, Sen; Lu, Wei; Liu, Yuankui; Pan, Yingrui; Doi, Chaoming; Chen, Qirui
 CORPORATE SOURCE: Dep. Chem., Sichuan Univ., Chengdu, Peop. Rep. China
 SOURCE: Sichuan Daxue Xuebao, Ziran Kexueban (1992); 29(1), 109-16
 CODEN: SCTHAO; ISSN: 0490-6756
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 AB Three new Ph diazosulfides, E-[(3,5-dichloro-4-allylphenyl)diazotert-butyl sulfides, are prepared, in which heterocyclo are morpholino, pyrrolidino and piperidino. These compds. can be used as sensitizers in phys. development photog. The structure of these sulfides and their intermediate products are confirmed by IR-, mass-, 1H NMR-, UV/visible-spectra and elemental- and thermal-anal. The synthetic methods and cis-trans isomerization are also studied. The new sensitizers are determined by photog. tests. They are suitable for phys. development photog. with their sensitivity, high contrast, and excellent resolution
 IT 85984-34-5P
 RL: PREP (Preparation)
 (preparation and reaction and spectroscopic characterization of, in synthesis of sensitizers for phys. development photog.)
 RN 85984-34-5 CAPLUS
 CN Benzenamine, 3,5-dichloro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

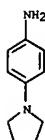


L13 ANSWER 210 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1993:180105 CAPLUS
 DOCUMENT NUMBER: 118:180105
 TITLE: Thermal recording materials using hydrindantin or its dihydrate and diaminoarenes
 INVENTOR(S): Taniguchi, Masatoshi; Hamanaka, Kozo; Kawai, Hajime; Tsunemitsu, Katsuhiko
 PATENT ASSIGNEE(S): Yamada Kagaku Kogyo K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04278387	A2	19921002	JP 1991-123270	19910305

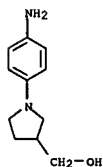
PRIORITY APPLN. INFO.: JP 1991-123270 19910305

OTHER SOURCE(S): MARPAT 118:180105
 AB Thermal recording materials comprises a support having thereon a recording layer containing hydrindantin or its dihydrate and R1R2NZNH2 [R1-2 = H, alkyl, cycloalkyl, alkoxyalkyl, haloalkyl, (un)substituted aralkyl, aryl; Z = (un)substituted p-C6H4, biphenylene, naphthylene; NR1R2 may be a ring]. The thermal recording materials provide light- and toluene-stable images, which have absorption at visible and near-IR region and are recognized by optical character readers.
 IT 146895-72-9
 RL: USES (Uses)
 (thermal recording materials using hydrindantin or its dihydrate and, visible and near-IR region-absorbing images from)
 RN 146895-72-9 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)-, hydrochloride (9CI) (CA INDEX NAME)

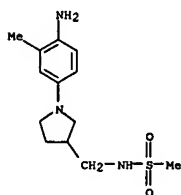


● x HCl

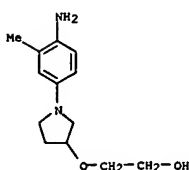
L13 ANSWER 211 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 143525-60-4 CAPLUS
 CN Methanesulfonamide, N-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]methyl]- (9CI) (CA INDEX NAME)



RN 143525-61-3 CAPLUS
 CN Ethanol, 2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]- (9CI) (CA INDEX NAME)



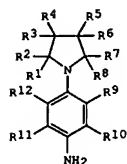
RN 143525-62-6 CAPLUS
 CN Benzenamine, 2-methoxy-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 211 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1992:581630 CAPLUS
 DOCUMENT NUMBER: 117:181630
 TITLE: Color developing agent and color image formation method
 INVENTOR(S): Oki, Nobutaka; Taniguchi, Masato; Nakamura, Koichi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 42 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04011255	A2	19920116	JP 1990-114603	19900427
JP 2726950	B2	19980311	US 1992-989556	19921211
US 5278034	A	19940111	JP 1990-114603	A 19900427

PRIORITY APPLN. INFO.: US 1991-691437 B2 19910425
 JP 1992-4088 A 19920113

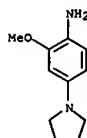
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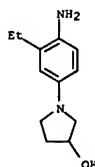
AB A color developing agent I [R1-8 = H, halo, amino, OH, CN, alkyl, alkoxy, amido, sulfonamide, carbamoyl, alkoxycarbonylamino, ureido, sulfamoylamino, sulfonyl, carboxy, sulfo; R9-12 = H, halo, amino, OH, alkyl, alkoxy, amido, sulfonamide, alkoxycarbonylamino, ureido, sulfamoylamino] is claimed. Addnl., a color image forming method using a developer containing the above developing agent is also described.

IT 143525-59-1 143525-60-4 143525-61-5
 143525-62-6 143525-63-7 143525-64-8
 143525-65-9 143525-66-0 143525-67-1
 143525-68-2 143525-69-3 143525-70-6
 RL: USES (Uses)
 (color developing agent)
 RN 143525-59-1 CAPLUS
 CN 3-Pyrrolidinemethanol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

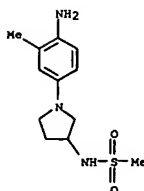
L13 ANSWER 211 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



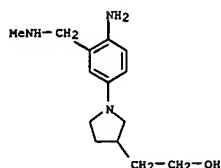
RN 143525-63-7 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)



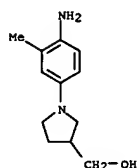
RN 143525-64-8 CAPLUS
 CN Methanesulfonamide, N-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



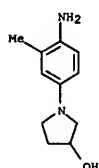
RN 143525-65-9 CAPLUS
 CN 3-Pyrrolidineethanol, 1-[4-amino-3-[(methylamino)methyl]phenyl]- (9CI) (CA INDEX NAME)



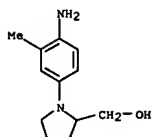
RN 143525-66-0 CAPLUS
CN 3-Pyrrolidinemethanol, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



RN 143525-67-1 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)

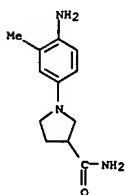


RN 143525-68-2 CAPLUS
CN 3-Pyrrolidineacetamide, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)

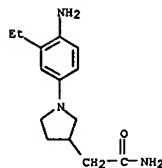


IT 143647-37-4
RL: USES (Uses)
(preparation use of, as color developing agent)
RN 143647-37-4 CAPLUS
CN 3-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)-, sulfate (2:1) (9CI)
(CA INDEX NAME)

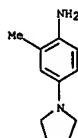
CM 1
CRN 143647-36-3
CMF C12 H17 N3 O



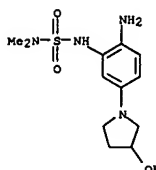
CM 2
CRN 7664-93-9
CMF H2 O4 S



RN 143525-69-3 CAPLUS
CN Benzenamine, 2-methyl-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 143525-70-6 CAPLUS
CN Sulfamide, N'-[2-amino-5-(3-hydroxy-1-pyrrolidinyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

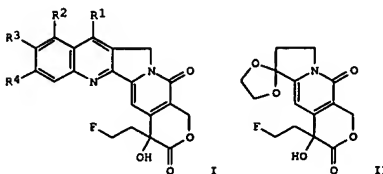


IT 143525-58-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, as color developing agent)
RN 143525-58-0 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1992:470111 CAPLUS
DOCUMENT NUMBER: 117:70111
TITLE: Preparation of (fluoroethyl)camptothecin derivatives as neoplasm inhibitors
Yoshikazu, Asahina; Kikoh, Ohi; Yasuo, Oomori; Takashi, Okazaki
INVENTOR(S): Kyorin Pharmaceutical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 59 pp.
CODEN: EPXDXW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

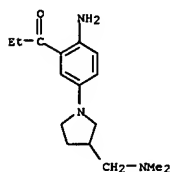
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 471358	A1	19920219	EP 1991-113652	19910814
EP 471358	B1	19960508		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
JP 05017479	A2	19930126	JP 1991-195460	19910805
JP 3024013	B2	20000321		
AU 9181618	A1	19920220	AU 1991-81618	19910806
AU 638347	B2	19930624		
HU 63425	A2	19930830	HU 1991-2639	19910807
HU 213136	B	19970228		
CA 2048896	AA	19920215	CA 1991-2048896	19910809
CA 2048896	C	19991116		
CN 1060095	A	19920408	CN 1991-108649	19910814
CN 1031941	B	19960605		
ES 2086442	T3	19960701	ES 1991-113652	19910814
PRIORITY APPL. INFO.:			JP 1990-215214	A 19900814

OTHER SOURCE(S): MARPAT 117:70111
GI



AB Title compds. [I: R1 = H, alkyl, hydroxymethyl, acyloxymethyl, CHO; R2-R4 = H, OH, alkyl, alkenyl, alkynyl, alkoxy, halo, (acyl)amino; R1R2 = (CH2)m2(CH2)n; Z = O, S, CH2, alkylmethylene, NH, alkylimino; m, n = 0-2], were prepared. Thus, ketal II (preparation given) was treated with 80% CF3CO2H and the product was refluxed with 2-amino-5-ethoxypropiofenone to give I (R1 = Et, R2 = R4 = H, R3 = OEt) (III). III at 30 mg/kg total dosed to the abdominal cavity of mice infected abdominally with P380 cells gave T/C

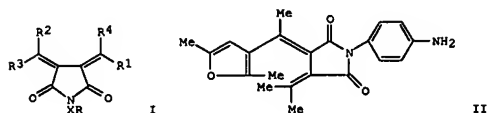
L13 ANSWER 212 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 = 5831 [T/C = (survival days of dosed group/survival days of nontreated group) + 100].
 IT 142606-90-4
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, in preparation of (fluoroethyl)camptothecin neoplasm inhibitor)
 RN 142606-90-4 CAPLUS
 CN 1-Propanone, 1-[2-amino-5-[3-[(dimethylamino)methyl]-1-pyrrolidinyl]phenyl]- (9CI) (CA INDEX NAME)



L13 ANSWER 213 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1991:492062 CAPLUS
 DOCUMENT NUMBER: 115:92062
 TITLE: Preparation of arylfulgimides as photochromic substances
 INVENTOR(S): Iwamoto, Osamu; Sugiyama, Haruhiko; Hara, Taizo
 PATENT ASSIGNEE(S): Wako Pure Chemical Industries, Ltd., Japan
 SOURCE: Eur. Pat. Appl., 47 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

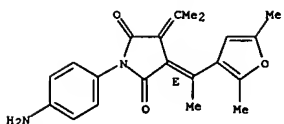
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 420397	A1	19910403	EP 1990-308032	19900723
EP 420397	B1	19951129		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 130850	E	19951215	AT 1990-308032	19900723
JP 03148258	A2	19910625	JP 1990-195536	19900724
US 5359085	A	19941025	US 1990-558549	19900727
JP 03178961	A2	19910802	JP 1990-246663	19900917
PRIORITY APPLN. INFO.:			JP 1989-195640	A 19890728
			JP 1989-242446	A 19890919

OTHER SOURCE(S): MARPAT 115:92062
 GI

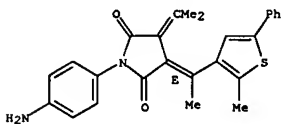


AB The title compds. (I; R = OH, CHO, CO2H, halo, amino, etc.; R1-R3 = H, halo, (cyclo)alkyl, alkoxy, aryl, etc.; R2R3 = atoms to complete a ring; R4 = (un)substituted Ph, heterocyclyl; X = divalent organic residual were prepared. Thus, Me2C:C(CO2Et)CH2CO2Et (preparation given) was condensed with 3-acetyl-2,5-dimethylfuran and the product condensed with 4-(H2N)C6H4NH2 to give pale red title compound II which, in CHCl3, gave a deep red color (λ_{max} = 518 nm) when exposed to UV light (310-380 nm) and reverted to the original state after visible light (>470 nm) exposure over several cycles.
 IT 135333-68-5P 135333-69-6P 135333-77-6P
 135333-84-5P
 RL: SPH (Synthetic preparation); PREP (Preparation)
 (preparation of, as photochromic substance)
 RN 135333-68-5 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)-3-[1-(2,5-dimethyl-3-furanyl)ethylidene]-4-(1-methylethylidene)-, (E)- (9CI) (CA INDEX NAME)
 Double bond geometry as shown.

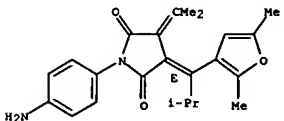
L13 ANSWER 213 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 135333-69-6 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)-3-[1-(2-methyl-5-phenyl-3-thienyl)ethylidene]-4-(1-methylethylidene)-, (E)- (9CI) (CA INDEX NAME)
 Double bond geometry as shown.

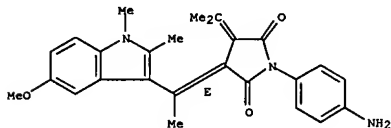


RN 135333-77-6 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)-3-[1-(2,5-dimethyl-3-furanyl)-2-methylpropylidene]-4-(1-methylethylidene)-, (E)- (9CI) (CA INDEX NAME)
 Double bond geometry as shown.



RN 135333-84-5 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)-3-[1-(5-methoxy-1,2-dimethyl-1H-indol-3-yl)ethylidene]-4-(1-methylethylidene)-, (E)- (9CI) (CA INDEX NAME)
 Double bond geometry as shown.

L13 ANSWER 213 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

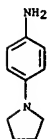


L13 ANSWER 214 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:460778 CAPLUS
DOCUMENT NUMBER: 115:60778
TITLE: Image-formation of direct positive photographic material by phenylenediamine
INVENTOR(S): Fujii Photo Film Co., Ltd., Japan
PATENT ASSIGNEE(S): Mirano, Shigeo
SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JIOKAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03002754	A2	19910109	JP 1989-136577	19890530

PRIORITY APPLN. INFO.: JP 1989-136577 19890530

OTHER SOURCE(S): MARPAT 115:60778
AB The image on the direct pos. photog. material having 21 layer on a support containing a Ag halide emulsion of non-prefogged internal image type and a color coupler is formed, with exposing imagewisely, and during and/or after fogging treatment, by developing with phenylenediamine RR1N(p-C6H4)NH2.Xn (R, R1 = H, alkyl, aryl, heterocyclic group; R and R1 may form a heterocyclic ring; X = acid residue; n = 0, 1, 3/2, 2). The method gives a hard pos. image with high maximum and min. d.
IT 2632-65-7
RL: USES (Uses)
(photog. developer contg, for hard pos. image)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

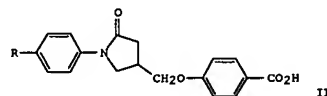
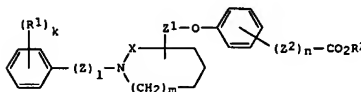


L13 ANSWER 215 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:228741 CAPLUS
DOCUMENT NUMBER: 114:228741
TITLE: Preparation of 4-[1-(substituted)phenyl-2-pyrrolidon-4-yl]methoxybenzoic acids and analogs as hypolipidemics
INVENTOR(S): Fujii, Setsuro; Kawamura, Hiroyuki; Watanabe, Shinichi
PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 41 pp.
CODEN: EPXKDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 393607	A2	19901024	EP 1990-107302	19900418
EP 393607	A3	19920122		
EP 393607	B1	19960221		
R: CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
JP 03275666	A2	19911206	JP 1990-103834	19900418
ES 2087097	T3	19960716	ES 1990-107302	19900418
KR 156741	B1	19981116	KR 1990-5401	19900418
US 5145865	A	19920908	US 1990-511344	19900419

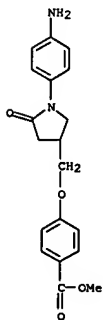
PRIORITY APPLN. INFO.: JP 1989-101439 A 19890419
JP 1990-30839 A 19900209

OTHER SOURCE(S): MARPAT 114:228741
GI



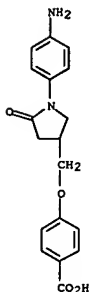
AB The title compds. (I; R1 = HO, halo, (un)substituted C1-6 alkyl, (un)substituted C3-8 cycloalkyl, (un)substituted PhO, carboxyl, amino, C2-6 alkenyloxy, C1-6 alkylsulfonyloxy, etc.; (R1)k = C1-4 alkylenedioxy, R2 = H, C1-6 alkyl; X = CH2, CO; Z = C1-6 alkylene, alkylenoxy; Z1 = C1-6 alkylene; Z2 = C1-6 alkylene, C2-6 alkenylene; k = 0-3; l, m, n = 0, 1] and their salts, effective hypolipidemics useful for the prophylaxis and treatment of arteriosclerosis, obesity, and diabetes, were prepared. Cyclocondensation of p-toluidine with itaconic acid gave Me 1-(4-tolyl)-5-oxo-3-pyridinecarboxylate. This was esterified by MeOH and the ester underwent successive reduction by NaBH4, esterification of the

L13 ANSWER 215 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
resulting hydroxymethyl deriv. by MeSO2Cl, etherification of the mesylate ester by Me p-hydroxybenzoate, sapon., and neutralization by HCl to give title compd. II (R = Me). II (R = F) in vitro inhibited biosynthesis of sterol with IC50 of 6.6-28.43 µM and that of fatty acids with IC50 of 5.2-18.44 µM.
IT 133749-34-59
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in preparation of hypolipidemic)
RN 133749-34-5 CAPLUS
CN Benzoic acid, 4-[[1-(4-aminophenyl)-5-oxo-3-pyrrolidinyl]methoxy]-, methyl ester (9CI) (CA INDEX NAME)

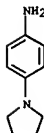


IT 133747-38-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as hypolipidemic)
RN 133747-38-3 CAPLUS
CN Benzoic acid, 4-[[1-(4-aminophenyl)-5-oxo-3-pyrrolidinyl]methoxy]- (9CI) (CA INDEX NAME)

L13 ANSWER 215 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 216 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1991:206928 CAPLUS
 DOCUMENT NUMBER: 114:206928
 TITLE: The facile synthesis of pyrrolidinobenzenes from succinaldehyde and phenylenediamines using HFe(CO)4-
 AUTHOR(S): Shim, Sang Chul; Woo, Byung Won; Doh, Chil Hoon; Choi,
 CORPORATE SOURCE: Kui Nam; Yeo, Young Kuk
 Dep. Ind. Chem., Kyungpook Natl. Univ., Taegu, 702-701, S. Korea
 SOURCE: Taehan Hwahakhoe Chi (1990), 34(6), 641-5
 CODEN: DHWHAB; ISSN: 0418-2472
 DOCUMENT TYPE: Journal
 LANGUAGE: Korean
 OTHER SOURCE(S): CASREACT 114:206928
 AB Ethanolic tetracarbonylhydridoferrate, HFe(CO)4-, combined with aqueous succinaldehyde is very efficient for the selective transformation of an amino group into a pyrrolidine ring. Phenylenediamines react with this mixture at room temperature under atmospheric pressure of CO to give pyrrolidines in moderate yields. In these reactions, a ferrate-succinaldehyde-phenylenediamine molar ratio of 1:1:1 gave two pyrrolidine rings.
 IT 2632-65-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 217 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1991:91605 CAPLUS
 DOCUMENT NUMBER: 114:91605
 TITLE: Nonlinear optical amines
 INVENTOR(S): Nakano, Akio; Yoshino, Katsumi; Honma, Masao
 PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKOKAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

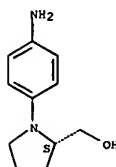
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02167529	A2	19900627	JP 1988-322514	19881221

 PRIORITY APPLN. INFO.: JP 1988-322514 19881221

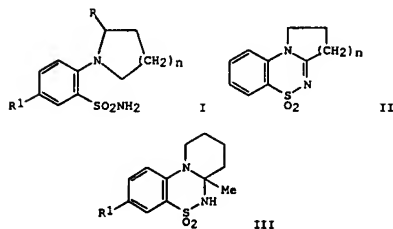
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

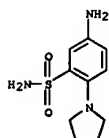
AB Phenylenediamines I-IV, p-NO2C6H4NHCH(CH2CO2H)CO2H, p-NO2C6H4NHCH(Me)CO2H, p-NO2C6H4NHCH(CH2Ph)CO2H, p-NO2C6H4NHCH(CH2H)CH2CH2CO2H, p-NO2C6H4NHCH(CH2H)CH2CHMe2 are claimed as nonlinear optical materials. Thus, p-NO2C6H4F was refluxed with L-hydroxyproline to give I showing excellent 2nd harmonic generation.
 IT 132041-37-3P
 RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (preparation and condensation reaction of, for nonlinear optical materials)
 RN 132041-37-3 CAPLUS
 CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)-, (2S)- (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



L13 ANSWER 218 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1991:42747 CAPLUS
 DOCUMENT NUMBER: 114:42747
 TITLE: 3,4-Substituted hydro-1,2,4-benzothiadiazine 1,1-dioxides
 AUTHOR(S): Moehle, Hans; Niefenthaler, Hans; Schinke, Jutta
 CORPORATE SOURCE: Inst. Pharm. Chem., Univ. Duesseldorf, Duesseldorf, D-4000, Germany
 SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1990), 323(11), 911-13
 CODEN: ARPMAS; ISSN: 0365-6233
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI

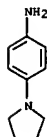


AB 2-Amino-5-nitrobenzenesulfonamides I (n = 1-3, R = H; n = 2, R = Me; R1 = NO2) were reduced to I (R1 = NH2) which were converted to I (R1 = H) by diazotation and reaction with H3PO2. Hg(II) EDTA dehydrogenation of I (R = R1 = H, n = 1-3) yields the benzothiadiazines II whereas that of I (R = Me, R1 = H, NH2, n = 2) leads to the sulfonylaminals III.
 IT 131269-56-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reductive deamination of)
 RN 131269-56-2 CAPLUS
 CN Benzenesulfonamide, 5-amino-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 218 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L13 ANSWER 219 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1990:611784 CAPLUS
 DOCUMENT NUMBER: 113:211784
 TITLE: gem-Cyclodialkylations. A facile synthetic route to N-substituted heterocycles
 AUTHOR(S): Hargis, Duane C.; Shubkin, Ronald L.
 CORPORATE SOURCE: Tech. Cent., Ethyl Corp., Baton Rouge, LA, 70898, USA
 SOURCE: Tetrahedron Letters (1990), 31(21), 2991-4
 CODEN: TELEAY; ISSN: 0040-4039
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 113:211784
 AB N-Alkylated and N-arylated pyrroles, pyrrolidines, and piperidines are synthesized in high yield by the reaction between cyclic ethers and primary amines over a heterogeneous titania catalyst.
 IT 2632-65-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

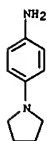


L13 ANSWER 220 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1990:181400 CAPLUS
 DOCUMENT NUMBER: 112:181400
 TITLE: Phenol derivatives having linear polyarylamino group in the meta position and their manufacture
 INVENTOR(S): Furuguchi, Minoru; Yoshinaka, Shinji; Yanagida, Mitsuhiko; Tanaka, Toshiyuki; Onishi, Yutaka; Obitsu, Takeo
 PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKOQAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

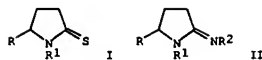
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01096156	A2	19890414	JP 1987-253726	19871009

PRIORITY APPLN. INFO.: JP 1987-253726 19871009

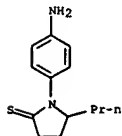
OTHER SOURCE(S): MARPAT 112:181400
 AB The title compds., useful as starting materials for fluoran color formers, have the general formula $XAr(N(R3)Ar)nN(R4)[ArN(R5)]mC6H4OR1$ [R1 = lower alkyl, acyl, benzyl; R2, R3, R4 = H, C1-8 alkyl, (un)substituted benzyl, phenyl; Ar = (un)substituted phenylene, naphthylene; X = NR5R6, H; R5, R6 = C1-8 alkyl, C5-6 cycloalkyl, (un)substituted benzyl; NR5R6 could be pyrrolidino, piperidino, morpholino; the C6H4 ring may contain halogen, lower alkyl, lower alkoxy substituent(s); m, n = 0-3; (m + n) = 1-5] and are prepared by reacting $X(ArN(R3)Ar)nNH2$ with $HO[ArN(R2)]mC6H4OR1$ or $XAr[N(R3)Ar]nOH$ and $NH2[ArN(R2)]mC6H4OR1$ in the presence of a Ti alkoxide.
 p-PhnHC6H4NH2 and m-(p-HOC6H4NH)C6H4OMe, and Ti(OPr-iso)4 in toluene were stirred at 50° for 24 h and worked up to give 4-anilino-4'-(3-methoxyanilino)diphenylamine in 62.9% yield.
 IT 2632-65-7
 RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with phenol derivs.)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 221 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1990:178528 CAPLUS
 DOCUMENT NUMBER: 112:178528
 TITLE: 5-Substituted 2-iminopyrrolidines: synthesis and antimicrobial activity
 AUTHOR(S): Beaspalova, G. V.; Sedavkina, V. A.; Kulikova, L. K.
 CORPORATE SOURCE: Sarat. Gos. Univ., Saratov, USSR
 SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1989), 23(8), 949-52
 CODEN: KHFZAN; ISSN: 0023-1134
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 112:178528
 GI

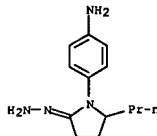


AB Treating pyrrolidinethiones I (R = Pr, Bu, n-amyl, R1 = H; R = Pr, R1 = p-H2NC6H4) with R2NH2 (R2 = H2N, HOCH2CH2, H2NCH2CH2) gave 49-72% imines II, useful as microbicides. The min. microbicidal concentration (μg/mL) for II (R = Bu, R1 = H, R2 = CH2CH2NH2) was 6 for Staphylococcus aureus, 37 for Escherichia coli, and 37 for Candida albicans.
 IT 126356-18-1
 RL: RCT (Reactant); RACT (Reactant or reagent) (mination of, by hydrazine, aminoethanol, and ethylenediamine)
 RN 126356-18-1 CAPLUS
 CN 2-Pyrrolidinethione, 1-(4-aminophenyl)-5-propyl- (9CI) (CA INDEX NAME)



IT 126356-20-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and bactericidal activity of)
 RN 126356-20-5 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)-5-propyl-, hydrazone (9CI) (CA INDEX NAME)

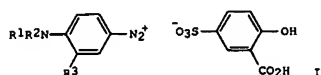
L13 ANSWER 221 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 222 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1990:45744 CAPLUS
DOCUMENT NUMBER: 112:45744
TITLE: Light-sensitive benzene diazonium compounds, process for their preparation and their use
INVENTOR(S): Siegel, Herbert; Erdmann, Fritz; Lutz, Walter
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 333004	A2	19890920	EP 1989-104057	19890308
EP 333004	A3	19910925		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
DE 3808590	A1	19890928	DE 1988-3808590	19880315
PRIORITY APPLN. INFO.:			DE 1988-3808590	A 19880315

OTHER SOURCE(S): MARPAT 112:45744
GI



AB Photosensitive benzenediazonium compds. of the structure I (R1 = Me, Et, or 2-hydroxyethyl; R2 = Me, Et, or together with R1 forms a 5- or 6-membered heterocycle with the N; R3 = H or Me) are described along with

a method for their preparation. The compds. are useful as the active components of diazo copying materials. Thus, 4-N,N-dimethylaminobenzenediazonium sulfate, which was prepared by diazotizing 4-N,N-dimethylaminoaniline and then reacting the diazonium salt with sulfosalicylic acid, was mixed with citric acid, caffeine, thiourea, 2,2'-4,4'-tetrahydroxybiphenyl, 2,7-dihydroxy-3,6-naphthalenedisulfonate, ZnCl2, and water, and then the mixture coated on a subbed paper support to give a diazo copying paper giving good color tone and image d.

IT 16089-43-3
RL: USES (Uses)
(reaction of diazotized, with sulfosalicylic acid)

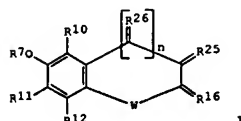
RN 16089-43-3 CAPLUS

CN Benzenamine, 3-methyl-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 223 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:478020 CAPLUS
DOCUMENT NUMBER: 111:78020
TITLE: Preparation of pharmaceutically active heterocyclic amines and their use for treating head injury, spinal trauma, stroke, etc.
INVENTOR(S): McCall, John M.; Ayer, Donald E.; Jacobsen, E. Jon; Van Doornik, Frederick J.; Palmer, John R.
PATENT ASSIGNEE(S): Upjohn Co., USA
SOURCE: PCT Int. Appl., 173 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

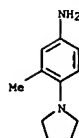
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8808424	A1	19881103	WO 1988-US1212	19880420
W: AU, DK, FI, JP, KR, NO, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
CA 1338012	A1	19960130	CA 1988-564335	19880415
EP 293078	A1	19881130	EP 1988-303576	19880420
R: ES, GR				
AU 8817098	A1	19881202	AU 1988-17098	19880420
AU 624788	B2	19920625		
EP 358676	A1	19900321	EP 1988-904101	19880420
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 02503198	T2	19901004	JP 1988-503777	19880420
JP 07103118	B4	19951108		
EP 487510	A1	19920527	EP 1992-200013	19880420
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 5120843	A	19920609	US 1989-425726	19891023
DK 8905335	A	19891026	DK 1989-5335	19891026
PRIORITY APPLN. INFO.:			US 1987-43274	A2 19870427
			WO 1988-US1212	A 19880420

OTHER SOURCE(S): MARPAT 111:78020
GI



AB The aromatic amines, alkylamines, bicyclic amines, cycloalkylamines, aromatic bicyclic amines, hydroquinoneamines, amino ethers, and bicyclic amino ethers, which are individually represented by Markush formula, e.g. bicyclic amines I [W = O, S, NH, C1-3 alkylimino; n = 0, 1, or 2; R7 = H,

L13 ANSWER 222 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 223 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
C1-4 alkyl, C1-4 alkyl, C1-4 alkylcarbonyl, PhCO, prodrug (e.g. PO2O-, COCH2CONHCH2SO2O-, or COCH:CHCO2-); R10 - R12 = H, Me; when R25 = R26 =

H, R16 = α -R17:R18 where one of R17 and R18 = H, Me, Et, or Ph and the other is COM (M = substituted NH2, heterocyclic amino; or C:CON:NCQ:CH where Q = 2-pyridinyl), (CH2)pCOM (p = 1-6), (CH2)qM (q = 1-6) or CO2(CH2)rM (r = 2-6); when n = O, R16 = R19:R20 where one of R19 and R20 taken together with R25 forms a second bond between the C atoms

to which R16 and R25 are attached and the other = M-substituted groups described for R16; when n = 1, R25R26 = bond between the C atoms to which R25 and R26 are attached; the original Markush definition was not completed.), useful as pharmaceuticals for treatment of head injury, spinal trauma, stroke and a no. of other related injuries and conditions (no data), are prepd. A mixt. of 6-bromohexanol, 2,6-bis(1-pyrrolidinyl)-

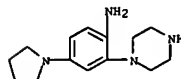
4-(1-piperazinyl)-1,3,5-triazine, K2CO3, and NaI in MeCN was refluxed to give 4-[4,6-bis(1-pyrrolidinyl)-1,3,5-triazin-2-yl]-1-piperazinehexanol. 111641-21-5P

IT RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(Preparation of, as intermediate for pharmaceutically active heterocyclic amines)

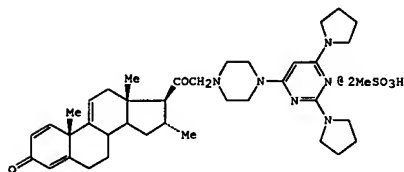
RN 111641-21-5 CAPLUS

CN Benzenamine, 2-(1-piperazinyl)-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 224 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1988:631361 CAPLUS
 DOCUMENT NUMBER: 109:231361
 TITLE: Amino steroids useful for treating a variety of conditions, and a process for their preparation
 INVENTOR(S): McCall, John M.; Ayer, Donald E.; Jacobsen, E. Jon; Van Doorick, Frederick J.; Palmer, John R.; Karnes, Harold A.
 PATENT ASSIGNEE(S): Upjohn Co., USA
 SOURCE: Eur. Pat. Appl., 90 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 263213	A1	19880413	EP 1986-307808	19861009
EP 263213	B1	19950906		
R: AT, ES, GR				
ES 2078890	T3	19960101	ES 1986-307808	19861009
PRIORITY APPLN. INFO.:			EP 1986-307808	A 19861009
OTHER SOURCE(S):		CASREACT 109:231361; MARPAT 109:231361		
GI				



AB Various amino-substituted steroids were prepared for use in the treatment of a wide variety of conditions. Aminolysis of 21-iodo-16 α -methylpregna-1,4,9(11)-triene-3,20-dione by 1-(2,6-di-1-pyrrolidinyl-4-pyrimidinyl)piperazine in MeCN containing K₂CO₃ at 60°, followed by chromatog. and salification with MeSO₃H, gave the amino steroid dimethanesulfonate I. In the in vivo mouse head injury test of Hall, 3 mg I/kg increases 1-h post-injury grip test scores by 134.5%.

IT 111640-79-OP 111668-55-4P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as drug)

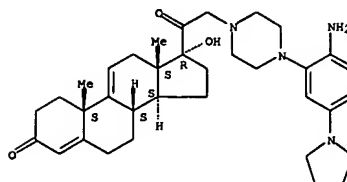
RN 111640-79-0 CAPLUS
 CN Pregna-4,9(11)-diene-3,20-dione,
 21-[4-[2-amino-5-(1-pyrrolidinyl)phenyl]-1-piperazinyl]-17-hydroxy- (9CI) (CA INDEX NAME)

L13 ANSWER 225 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1988:188440 CAPLUS
 DOCUMENT NUMBER: 108:188440
 TITLE: Fluoran color formers for heat- and pressure-sensitive recording materials
 INVENTOR(S): Obitsu, Takeo; Ohnishi, Yutaka; Yoshinaka, Shinji; Koguchi, Minoru; Yanagita, Mitsuhiro; Tanaka, Toshiyuki; Hirai, Nobuyuki
 PATENT ASSIGNEE(S): Shin Nisso Kako Co., Ltd., Japan
 SOURCE: Ger. Offen., 33 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3725258	A1	19880211	DE 1987-3725258	19870730
DE 3725258	C2	20000210		
JP 63037158	A2	19880217	JP 1986-181224	19860731
JP 07013195	B4	19950215		
JP 63109086	A2	19880513	JP 1986-253650	19861027
JP 63118290	A2	19880523	JP 1986-263889	19861107
JP 63145366	A2	19880617	JP 1986-290379	19861208
JP 07013197	B4	19950215		
JP 63156790	A2	19880629	JP 1986-301421	19861219
US 4826806	A	19890502	US 1987-79456	19870729
GB 2194545	A1	19880309	GB 1987-18076	19870730
GB 2194545	B2	19900815		
CH 677232	A	19910430	CH 1990-1711	19870730
CH 678428	A	19910913	CH 1987-2927	19870730
FR 2602238	A1	19880205	FR 1987-10911	19870731
FR 2602238	B1	19940603		
BE 1003079	A5	19911119	BE 1987-854	19870731
FR 2612921	A1	19880930	FR 1987-15793	19871116
FR 2612921	B1	19901026		
US 4954631	A	19900904	US 1989-305554	19890202
PRIORITY APPLN. INFO.:			JP 1986-181224	A 19860731
			JP 1986-253650	A 19861027
			JP 1986-263889	A 19861107
			JP 1986-290379	A 19861208
			JP 1986-301421	A 19861219
			US 1987-79456	A3 19870729
			CH 1987-2927	A 19870730

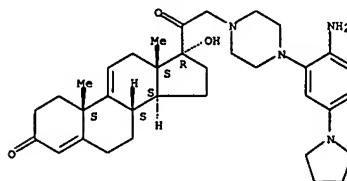
OTHER SOURCE(S): CASREACT 108:188440; MARPAT 108:188440
 GI

L13 ANSWER 224 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 Absolute stereochemistry.



RN 111668-55-4 CAPLUS
 CN Pregna-4,9(11)-diene-3,20-dione,
 21-[4-[2-amino-5-(1-pyrrolidinyl)phenyl]-1-piperazinyl]-17-hydroxy-, hydrochloride (9CI) (CA INDEX NAME)

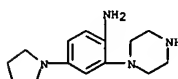
Absolute stereochemistry.



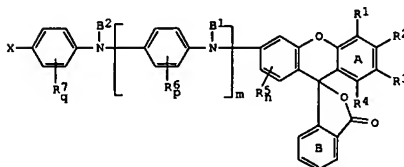
●x HCl

IT 111641-21-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for amino steroids)

RN 111641-21-5 CAPLUS
 CN Benzenamine, 2-(1-piperazinyl)-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



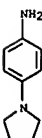
L13 ANSWER 225 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB Title compds. I (B1, B2 = H, C1-8 alkyl, (un)substituted PhCH₂, (un)substituted Ph; R1-R4 = H, halogen, lower alkoxy, C1-9 alkyl, C5-6 cycloalkyl, (un)substituted PhCH₂, (un)substituted Ph; R5-R7 = halogen, lower alkyl, lower alkoxy; X = H, NR₈R₉; R₈, R₉ = H, C1-8 alkyl, C5-6 cycloalkyl, (un)substituted PhCH₂; m = 0-3; n, p, q = 0-2; NR₈R₉ may form a pyrrolidino, piperidino, or morpholino moiety; R₂ and R₃ together may form an (un)substituted naphthalene ring with ring A; and ring B is optionally substituted with halogen), useful as color formers in heat- and pressure-sensitive recording materials, are prepared Thus, 3-methoxy-4'-hydroxydiphenylamine and 4-aminodiphenylamine reacted in the presence of Ti(OPr-iso)₄ to give 3-methoxy-4'-(4''-phenylaminophenylamino)diphenylamine (II). II was dissolved in concentrated H₂SO₄ (-10°) with 2-(5-chloro-2-hydroxy-4-methylbenzoyl)benzoic acid, the mixture stirred for 24 h at room temperature (apprx.25°), poured into ice water, an intermediate isolated by filtration, washed, added to a mixture of H₂O, caustic soda, and PhMe, and refluxed for 1 h. The PhMe layer was separated, and the obtained 3-[4'-(4''-phenylaminophenylamino)phenyl amino]-6-methyl-7-chlorofluoran color former purified by column chromatog.

IT 2632-65-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with methoxyhydroxydiphenylamine)

RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

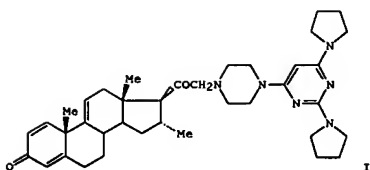


L13 ANSWER 226 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1988:6287 CAPLUS
 DOCUMENT NUMBER: 108:6287
 TITLE: Amino-substituted steroids having a variety of pharmacological activities, and processes for their preparation
 INVENTOR(S): McCall, John M.; Jacobsen, E. Jon; Van Doornik, Frederick J.; Palmer, John R.; Karnes, Harold A.
 PATENT ASSIGNEE(S): Upjohn Co., USA
 SOURCE: PCT Int. Appl., 169 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8701706	A2	19870326	WO 1986-US1797	19860828
WO 8701706	A3	19870716		
W: AU, DK, FI, JP, KR, NO, SU, US, US, US, US				
RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
IL 79702	A1	19920216	IL 1986-79702	19860812
IL 98007	A1	19920216	IL 1986-98007	19860812
ZA 8606097	A	19880330	ZA 1986-6097	19860813
CA 1308707	A1	19921013	CA 1986-516177	19860818
AU 8663356	A1	19870407	AU 1986-63356	19860828
AU 593284	B2	19900208		
EP 238545	A1	19870930	EP 1986-905605	19860828
EP 238545	B1	19951115		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 63500868	T2	19880331	JP 1986-504810	19860828
JP 05035158	B4	19930525		
AT 130307	E	19951215	AT 1986-905605	19860828
CN 86106226	A	19870318	CN 1986-106226	19860912
CN 1030319	B	19951122		
DK 8702375	A	19870511	DK 1987-2375	19870511
DK 175347	B1	20040906		
NO 8701930	A	19870511	NO 1987-1930	19870511
NO 176762	B	19950213		
NO 176762	C	19950531		
FI 8702107	A	19870512	FI 1987-2107	19870512
FI 94417	B	19950531		
FI 94417	C	19950911		
US 5099019	A	19920324	US 1988-229675	19880808
AU 8940806	A1	19891207	AU 1989-40806	19890825
AU 614661	B2	19910805		
AU 8940807	A1	19891207	AU 1989-40807	19890825
AU 614418	B2	19910829		
US 5175281	A	19921229	US 1991-749830	19910826
US 5322943	A	19940621	US 1991-749829	19910826
JP 05112597	A2	19930507	JP 1992-8428	19920121
US 35053	E	19951010	US 1992-959310	19921009
US 5268477	A	19931207	US 1992-977768	19921119
US 5380839	A	19950110	US 1992-983082	19921201
US 5380840	A	19950110	US 1992-983084	19921201
US 5380841	A	19950110	US 1992-984299	19921201
US 5382661	A	19950117	US 1992-984298	19921201
US 5506354	A	19960409	US 1992-984302	19921201
PRIORITY APPLN. INFO.:			US 1985-775204	A 19850912

L13 ANSWER 226 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 US 1985-811058 A 19851219
 US 1986-877287 A 19860623
 US 1986-888231 A 19860729
 IL 1986-79702 A 19860812
 WO 1986-US1797 A 19860828
 US 1987-121822 B2 19870511
 US 1988-227812 B2 19880803
 US 1988-229675 A3 19880808
 US 1991-749829 A3 19910826
 US 1991-749830 A3 19910826

OTHER SOURCE(S): MARPAT 108:6287
 GI



AB Numerous pregnane deriva. with amino-substituted sidechains were prepared for use as various types of drugs. Aminolysis of 21-iodo-16a-methylpregna-1,4,9(11)-triene-3,20-dione with 4-(2-di-1-pyrrolidinyl-4-pyrimidinyl)piperazine in MeCN containing K2CO3 at 60° gave

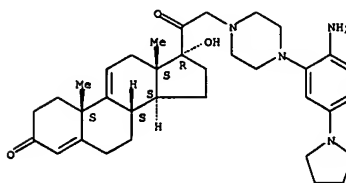
was converted to I.2MeSO3H (II). In the interleukin-1-induced T-cell proliferation assay, II gave 62% inhibition at 10-6 M, thereby demonstrating antiarthritic activity.

IT 111640-79-0P 111668-55-4P
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as drug)

RN 111640-79-0 CAPLUS
 CN Pregna-4,9(11)-diene-3,20-dione,
 21-[4-[2-amino-5-(1-pyrrolidinyl)phenyl]-
 1-piperazinyl]-17-hydroxy- (9CI) (CA INDEX NAME)

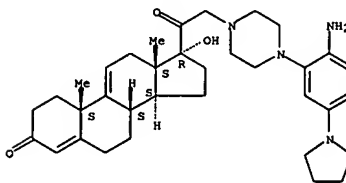
Absolute stereochemistry.

L13 ANSWER 226 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



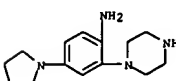
RN 111668-55-4 CAPLUS
 CN Pregna-4,9(11)-diene-3,20-dione,
 21-[4-[2-amino-5-(1-pyrrolidinyl)phenyl]-
 1-piperazinyl]-17-hydroxy-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● x HCl

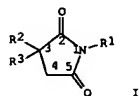
IT 111641-21-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for steroidal drugs)
 RN 111641-21-5 CAPLUS
 CN Benzenamine, 2-(1-piperazinyl)-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 227 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1987:113536 CAPLUS
 DOCUMENT NUMBER: 106:113536
 TITLE: Ethosuximide tracers, immunogens, and antibodies, and their preparation and use in an ethosuximide fluorescence-polarization immunoassay
 INVENTOR(S): Heiman, Daniel Feulner; Canterero, Luis A.; Chan, Clifford Man
 PATENT ASSIGNEE(S): Abbott Laboratories, USA
 SOURCE: Eur. Pat. Appl., 31 pp.
 CODEN: EPXQDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

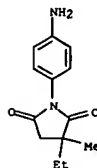
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 199963	A1	19861210	EP 1986-103673	19860318
EP 199963	B1	19911023		
R: BE, DE, FR, IT				
JP 61236799	A2	19861022	JP 1986-72644	19860401
JP 06062628	B4	19940817		
PRIORITY APPLN. INFO.:			US 1985-718601	A 19850401

GI

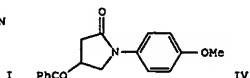
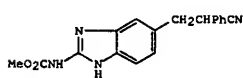


AB Ethosuximide analogs and derivs. I [R1 = H, R2Q (R = linking group; Z = NH, CO, CS, SO2, C=NH, N, NH, N=N, CH2; Q = poly(amino acid) or derivative, an immunol. active carrier, fluorescein or derivative); R2 = Me, Et when R1 = R2Q, or CH2R2Q when R1 = H (R2Q as defined); R3 = Me, Et] are prepared as tracers and immunogens for use in fluorescence-polarization immunoassay for ethosuximide. The assay is conducted by measuring the degree of polarization of plane polarized light that has been passed through a sample containing antiserum and tracer. 6-Carboxyfluorescein was coupled to 3-methyl-3-(3-aminopropyl) succinimide hydrochloride (prepared from 5-chloro-2-pentanone ethylene ketal and dibenzylamine in multiple steps). This tracer (0.5-2.0 nM) and ethosuximide antiserum obtained by using I (R1 = H, R2 = aminopropyl, R3 = Me, Q = bovine serum albumin) as the immunogen were used in a fluorescein-polarization assay for ethosuximide determination
 IT 65116-42-99
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, in ethosuximide derivative synthesis)
 RN 65116-42-9 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)-3-ethyl-3-methyl- (9CI) (CA INDEX

L13 ANSWER 227 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

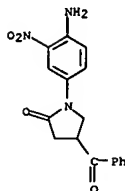


L13 ANSWER 228 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1987:102159 CAPLUS
 DOCUMENT NUMBER: 106:102159
 TITLE: Possible anthelmintic agents: syntheses of methyl 5(6)-substituted-benzimidazole-2-carbamates
 AUTHOR(S): Akhter, M. Shamim; Seth, M.; Bhaduri, A. P.
 CORPORATE SOURCE: Med. Chem. Div., Cent. Drug Res. Inst., Lucknow, 226 001, India
 SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1986), 25B(4), 395-9
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 106:102159
 GI

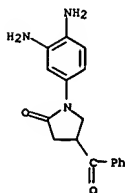


AB Syntheses of α-phenyl-[(2-methoxycarbonylamino)-5(6)-benzimidazolyl]propionitrile (I), α-phenyl-[(2-methoxycarbonylamino)-5(6)-benzimidazolyl]acrylonitrile (II), Me 5(6)-hydroxymethylbenzimidazole-2-carbamate, β-[(2-methoxycarbonylamino)-5(6)-benzimidazolyl]acrylic acid, 2-methoxycarbonylamino-5(6)-benzimidazole-5(6)-acetoxime and 4-benzoyl-N-[5(6)-(2-methoxycarbonylamino)benzimidazolyl]pyrrolidin-2-one (III) from 3,4-O2N(AcNH)C6H3COR (R = H, Me) are described. The structure of the III was assigned on the basis of extensive 13C NMR studies and 15N signal of a model compound IV obtained by reacting β-aryl-γ-butyrolactone with p-anisidine. The compds. I and II at a single dose of 100 mg/kg exhibit 100% clearance of A. ceylanicum infection in hamsters.
 IT 106873-49-89
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and catalytic reduction of)
 RN 106873-49-8 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-3-nitrophenyl)-4-benzoyl- (9CI) (CA INDEX NAME)

L13 ANSWER 228 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



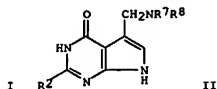
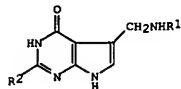
IT 106873-50-19
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and cyclization with methylisothiuronium sulfate and Me chloroformate, benzimidazole derivative from)
 RN 106873-50-1 CAPLUS
 CN 2-Pyrrolidinone, 4-benzoyl-1-(3,4-diaminophenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 229 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1986:207062 CAPLUS
 DOCUMENT NUMBER: 104:207062
 TITLE: 7-Deazapurine derivatives
 INVENTOR(S): Mishimura, Susumu; Nomura, Hiroaki; Akimoto, Hiroshi
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: Eur. Pat. Appl., 38 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 160910	A2	19851113	EP 1985-105173	19850427
EP 160910	A3	19870204		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
JP 60233080	A2	19851119	JP 1984-89049	19840502
JP 04017197	B4	19920325		
US 4650868	A	19870317	US 1985-729202	19850501
CA 1247094	A1	19881220	CA 1985-480507	19850501
PRIORITY APPL. INFO.:			JP 1984-89049	A 19840502

OTHER SOURCE(S): CASREACT 104:207062; MARPAT 104:207062
 GI

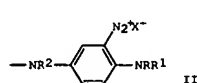
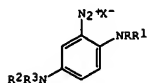


AB 7-Deazapurine derivs. I [R1 = Ph substituted at the ortho and (or) para position with OR3, SR4, NR5R6 (R3, R4, R5, R6 = H, alkyl, unsubstituted) Ph, protective group]; R2 = (un)protected NH2], useful as potent antitumor agents, are prepared from II (R7, R8 = alkyl, alkenyl, aralkyl, or R7 and R8 together with the adjacent N atom form a cyclic amino group) in a substitution reaction with H2NR1 (R1 as defined). I markedly inhibited the growth of cultured L5178y cells in vitro as well as growth of Meth A, sarcoma, etc. in vivo. In addition, when administered i.p. to mice at 200 mg/kg I did not cause death. Thus, 1.95 g 5-N,N-dibenzylaminomethyl-2-octanoylamino-2,3-dihydropyrimidin-4-one was reacted with 3.1 g o-anisidine at 80° for 24 h with stirring to give 1.35 g 5-(2-methoxyphenylaminomethyl)-2-octanoylamino-2,3-dihydropyrimidin-4-one (III). III (1.06 g) was then suspended in MeOH/THF, aqueous NH3 added, and the mixture stirred at room temperature for 6 days to give 2-amino-5-(2-methoxyphenylaminomethyl)pyrrolo[2,3-d]pyrimidin-4-one (0.623 g).
 IT 2632-65-7
 RL: RCT (Reactant); RACT (Reactant or reagent)

L13 ANSWER 230 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1986:139364 CAPLUS
 DOCUMENT NUMBER: 104:139364
 TITLE: Diazo material
 INVENTOR(S): Marx, Joerg; Watzke, Roland
 PATENT ASSIGNEE(S): VEB Filmfabrik Wolfen, Fotochemisches Kombinat, Ger.
 SOURCE: Dem. Rep. Ger. (East), 10 pp.
 CODEN: GEXXA8
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 224419	A1	19850703	DD 1984-261728	19840406
PRIORITY APPL. INFO.:			DD 1984-261728	19840406

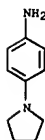
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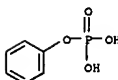
AB A blue light-sensitive diazo material with a high coupling activity and thermal stability as well as less fog formation consists of an underlayer, a diazonium salt of the formula I (R, R1 = C1-6 alkyl, C7-10 aralkyl, or together form a heterocycle that may addnl. contain O, S, or N; R2 = H, C1-8 alkyl; R3 = COR4, P(OR)5R6, SO2R7 where R4 = C1-6 alkyl, or C7-10 aralkyl, C1-4 haloalkyl or C1-6 alkoxy, R5 = C1-6 alkoxy, arylalkoxy, halo, R6 = H, halo, OH, C1-18 alkoxy, NH2, NRR1, PhR2N, or II; R7 = aryl; X- = an anion), a coupler, a binder, and, if necessary, other additives. Thus, a 1.2 m2 poly(ethylene terephthalate) support was coated with a composition containing 2-pyrrolidino-5-acetylamino-2,3-dihydropyrimidin-4-one tetrafluoroborate 12, β-naphthol 10, sulfosalicylic acid 2.5 g, and a 10% CH2Cl2-MeOH solution of cellulose acetate 100 mL, dried to give a yellow-orange transparent film, imaged exposed through a filter at 440 nm, and developed in a moist NH3 atmosphere to give a violet pos. image of the original upon a clear background.
 IT 101152-83-6
 RL: USES (Uses)
 (diazo copying materials containing, blue light-sensitive, with improved coupling activity and thermal stability and decreased fog formation)
 RN 101152-83-6 CAPLUS
 CH Benzenediazonium, 5-amino-2-(1-pyrrolidinyl)-, (7-4)-tetrachlorozincate(2-), phenyl phosphate (2:1:1) (9CI) (CA INDEX NAME)

CH 1

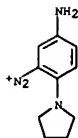
L13 ANSWER 229 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (reaction of, with deazapurine deriv.)
 RN 2632-65-7 CAPLUS
 CH Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



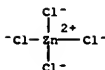
L13 ANSWER 230 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CRN 701-64-4
 CMF C6 H7 O4 P



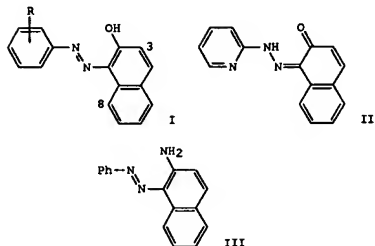
CH 2
 CRN 101152-84-5
 CMF C10 H13 N4 . 1/2 C14 Zn
 CH 3
 CRN 101152-83-4
 CMF C10 H13 N4



CH 4
 CRN 15201-05-5
 CMF C14 Zn
 CCI CCS

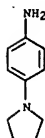


L13 ANSWER 231 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1986:129396 CAPLUS
 DOCUMENT NUMBER: 104:129396
 TITLE: Proton-NMR spectroscopic investigations of the
 azo-hydrazone tautomerism in substituted
 1-phenylazo-2-naphthols
 AUTHOR(S): Haessner, R.; Mustroph, H.; Borsdorf, R.
 CORPORATE SOURCE: SEKT. Chem., Karl-Marx-Univ., Leipzig, Ger. Dem. Rep.
 SOURCE: Journal fuer Praktische Chemie (Leipzig) (1985),
 327(4), 555-66
 CODEN: JPCEAO; ISSN: 0021-8383
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 OTHER SOURCE(S): CASREACT 104:129396
 GI



AB The azo-hydrazone tautomerism in 38 title compds. I (R = 2-NO₂, 4-F, 3-OMe, 4-OH, 4-NH₂, etc.) was determined from the ¹H NMR chemical shifts of H(8) and H(3) using the pyridylazonaphthol II and the phenylazonaphthylamine III as model compds. The equilibrium constant for the I tautomerization have an LFER with σ. The standard reaction entropy for the conversion of the azoic form into the hydrazone form is always neg. and is substituent effect free. The quinoid hydrazone has a higher tendency to aggregate than does its tautomer.
 IT 2632-65-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (azo coupling of, with naphthol)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

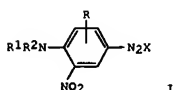
L13 ANSWER 231 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 232 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1985:603793 CAPLUS
 DOCUMENT NUMBER: 103:203793
 TITLE: Silverfree information recording material
 INVENTOR(S): Marx, Joerg; Matzke, Roland
 PATENT ASSIGNEE(S): VEB Filmfabrik Wolfen, Ger. Dem. Rep.
 SOURCE: Ger. (East), 14 pp.
 CODEN: GEXXA8
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

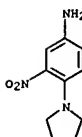
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 220427	A1	19850327	DD 1983-258230	19831220
PRIORITY APPLN. INFO.:			DD 1983-258230	19831220

GI

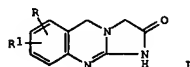


AB Ag-free information recording materials which are UV light- and blue light-sensitive, show good thermal stability, and give image dyes having improved lightfastness contain a diazonium compound of the formula I (R = H, alkyl, alkoxy, alkoxy-carbonyl, alkylsulfonyl, halogen, CN, Ph, PhO, PhCH₂, or carbonyl; R₁, R₂ = alkyl, Ph, PhCH₂, or together form a heterocycle; X = an anion). Thus, a solution containing 3-nitro-4-pyrrolidinobenzene-diazonium tetrachlorozincate 3.8, 2-hydroxy-3-naphthoic acid 2'-methoxy-5'-nitroanilide 6.0, sulfosalicylic acid 2.0 g, and a 10% CH₂Cl₂-MeOH solution of cellulose acetate 1000 mL was coated on 10 to 15 m² of a subbed PET support, dried to give a transparent yellow film, and then imagewise exposed and developed in an NH₃ atmosphere to give a blue print on a yellow background. The resultant image was more stable by a factor of 1.8 than an image prepared with a control containing a corresponding diazonium compound not having a 3-nitro group.
 IT 5367-57-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and diazotization of)
 RN 5367-57-7 CAPLUS
 CN Benzenamine, 3-nitro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

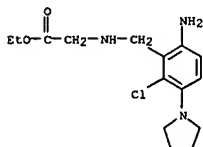
L13 ANSWER 232 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 233 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1985:560469 CAPLUS
 DOCUMENT NUMBER: 103:160469
 TITLE: Cyclic guanidines. 17. Novel (N-substituted amino)imidazo[2,1-b]quinazolin-2-ones: water-soluble platelet aggregation inhibitors
 AUTHOR(S): Ishikawa, Fumiyoshi; Saegusa, Junji; Inamura, Kazuo; Sakuma, Kyoko; Ashida, Shinichiro
 CORPORATE SOURCE: Res. Inst., Daiichi Seiyaku Co., Ltd., Tokyo, 134, Japan
 SOURCE: Journal of Medicinal Chemistry (1985), 28(10), 1387-93
 CODEN: JMCMAR; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 103:160469
 GI



AB Aminotetrahydroimidazo[2,1-b]quinazolin-2-ones I [R = Me2N, Et2N, PhCH2NMe, MeNH, pyrrolidino, morpholino, 4-methyl-1-piperazinyl, (un)substituted piperidino in 6-, 7-, or 8-position; R1 = H, Cl] were prepared and were potent inhibitors of blood platelet aggregation in the rat. Some were H2O-soluble and effective via i.v. infusion. Structure-activity relationships indicate that a lipophilic secondary amino group at position 6 or 7 contributed to retention of potent activity. I (R = 7-piperidino, R1 = H) was the most effective, with an EC50 of 0.33 µM in the in vitro test.
 IT 96336-90-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclocondensation of, with cyanogen bormide)
 RN 96336-90-2 CAPLUS
 CN Glycine, N-[[6-amino-2-chloro-3-(1-pyrrolidinyl)phenyl]methyl]-, ethyl ester (9CI) (CA INDEX NAME)

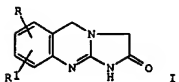


IT 97112-77-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 97112-77-1 CAPLUS

L13 ANSWER 234 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1985:203983 CAPLUS
 DOCUMENT NUMBER: 102:203983
 TITLE: Imidazoquinazolin-2-one compounds and pharmaceutical compositions containing them
 INVENTOR(S): Ishikawa, Fumiyoshi
 PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 50 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

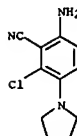
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 133234	A2	19850220	EP 1984-108261	19840713
EP 133234	A3	19851030		
EP 133234	B1	19890412		
R: BE, CH, DE, FR, GB, IT, LI, NL, SE				
JP 60028979	A2	19850214	JP 1983-128173	19830714
JP 04019996	B4	19920331		
CA 1231947	A1	19880126	CA 1984-458566	19840710
US 4610987	A	19860909	US 1984-631417	19840716
PRIORITY APPLN. INFO.:			JP 1983-128173	A 19830714

OTHER SOURCE(S): CASREACT 102:203983; MARPAT 102:203983
 GI

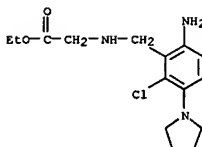


AB Title compds. I [R = dialkylamino, (un)substituted N heterocyclyl; R1 = H, halogen, alkyl, alkoxy] were prepared. Thus, 2,5-O2N(Cl)C6H3CN was aminated with Me2NH to give the 5-Me2N derivative which was reduced with NaBH4 to give 5,2-Me2N(O2N)C6H3CH2NH2. The latter compound was treated with BrCH2CO2Et and catalytically reduced with 5% Pd-C to give 5,2-(Me2N)(H2N)C6H3CH2NHCH2CO2Et which was cyclized with BrCN to give I (R = 7-Me2N, R1 = H)(II). II inhibited ADP-induced aggregation of human platelets with an ED50 of 7.2 µM and is accompanied by substantially no decrease in blood pressure and only a small increase in the heart rate.
 IT 96336-90-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and cyclocondensation of, with cyanogen bromide)
 RN 96336-90-2 CAPLUS
 CN Glycine, N-[[6-amino-2-chloro-3-(1-pyrrolidinyl)phenyl]methyl]-, ethyl ester (9CI) (CA INDEX NAME)

L13 ANSWER 233 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Benzonitrile, 6-amino-2-chloro-3-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



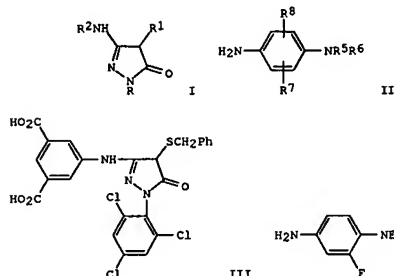
L13 ANSWER 234 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 235 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1984:626344 CAPLUS
 DOCUMENT NUMBER: 101:226344
 TITLE: Reagents for hydrogen peroxide determination
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JFOOAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

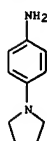
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59126245	A2	19840720	JP 1982-130920	19820727
PRIORITY APPL. INFO.:			JP 1982-130920	19820727

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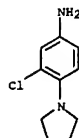


AB Compds. I (R1=halogen, R2=alkyl, acyl, alkoxycarbonyl, or aryl; R=Ph) and II (R5 and R6=alkyl, R7 and R8=H, alkyl, halogen, carboxyl, carbamyl, sulfo, and sulfonamide) were used for determining H2O2. For example, samples were mixed with a phosphate buffer containing III (II, R5=R6=Et, R7=F, and R8=H), IV, peroxidase, and DMF, incubated at 37° for 10 min, and measured at 552 nm for H2O2 determination. This method is approx. 3-fold more sensitive than the spectrophotometric method using 4-aminoantipyrine and N,N-bis(β-dihydroxyethyl)-m-toluidine.
 IT 2632-65-7 16089-44-4 93246-54-9
 RL: ANST (Analytical study)
 (In hydrogen peroxide determination by spectrophotometry)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

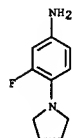
L13 ANSWER 235 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 16089-44-4 CAPLUS
 CN Benzenamine, 3-chloro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



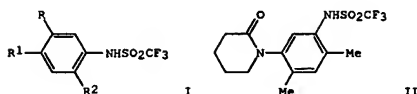
RN 93246-54-9 CAPLUS
 CN Benzenamine, 3-fluoro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 236 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1983:575601 CAPLUS
 DOCUMENT NUMBER: 99:175601
 TITLE: N-Phenyl-substituted N-heterocyclic compounds and their use in agents for regulating plant growth
 INVENTOR(S): Tobler, Hans; Foery, Werner; Schurter, Rolf
 PATENT ASSIGNEE(S): Ciba-Geigy Corp., USA
 SOURCE: U.S., 22 pp. Cont.-in-part of U.S. Ser. No. 111,517, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

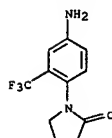
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4394156	A	19830719	US 1981-314620	19811026
CH 629076	A	19820415	CH 1977-4702	19770415
CH 632131	A	19820930	CH 1977-13661	19771109
US 4208202	A	19800617	US 1978-896970	19780412
BE 865979	A1	19781016	BE 1978-186784	19780414
ZA 7802158	A	19790328	ZA 1978-2158	19780414
US 4294606	A	19811013	US 1980-111552	19800114
PRIORITY APPL. INFO.:			CH 1977-4702	A 19770415
			CH 1977-13661	A 19771109
			US 1978-896970	A3 19780412
			US 1980-111517	A2 19800114

OTHER SOURCE(S): CASREACT 99:175601; MARPAT 99:175601
 GI

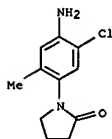


AB Phenylpyridones I (R = substituted 2-oxo-1-pyridyl; R1, R2 = H, alkyl, alkoxy, halogen) are claimed. I (R = oxopyrrolidino, oxopiperidino, oxazetidinone, maleimido) were prepared. Thus, 4,6,3-Me2(O2N)C6H2NHCO(CH2)4Cl was cyclized, reduced to the amine, and treated with (CF3SO2)2O to give II which was an ineffective herbicide at 0.1 kg/ha preemergence.
 IT 69131-62-0P 69132-29-2P 69132-30-5P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 69131-62-0 CAPLUS
 CN 2-Pyrrolidinone, 1-[4-amino-2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

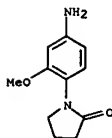
L13 ANSWER 236 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 69132-29-2 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-5-chloro-2-methylphenyl)- (9CI) (CA INDEX NAME)



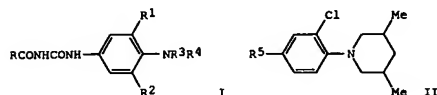
RN 69132-30-5 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-2-methoxyphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 237 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1983:405519 CAPLUS
 DOCUMENT NUMBER: 99:5519
 TITLE: N-Benzoyl-N'-phenylureas and their use in combating insects and spiders
 INVENTOR(S): Lange, Arno; Kiehs, Karl; Adolphi, Heinrich
 PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
 SOURCE: Eur. Pat. Appl., 39 pp.
 CODEN: EFXDXW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 72438	A2	19830223	EP 1982-106389	19820716
EP 72438	A3	19830309		
R: BE, CH, DE, DE 3132020	A1	19830303	DE 1981-3132020	19810813
JP 58074653	A2	19830506	JP 1982-137466	19820809
PRIORITY APPLN. INFO.:			DE 1981-3132020	A 19810813

OTHER SOURCE(S): CASREACT 99:5519; MARPAT 99:5519
 GI



AB Benzoylphenylureas I (R = (un)substituted Ph; R1, R2 = H, Br, Cl, F, Me, F3C; R3, R4 = (un)substituted alkyl, Ph; NR3R4 = heterocycle) were prepared

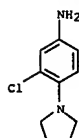
Thus, 3,5-dimethylpiperidine was condensed with 3,4-dichloronitrobenzene to give II (R5 = NO2). This was reduced to the aniline and condensed with 2,6-F2C6H3CONCO to give II (R = 2,6-F2C6H4CONHCONH). I (R = 2,6-F2C6H3; R1 = R2 = Br, NR3R4 = piperidino), at 0.001 ppm, gave 100% kill of Aedes aegypti larvae.

IT 16089-44-4 85984-34-5 85984-36-7
 85984-38-9

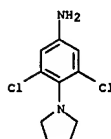
RL: RCT (Reactant); RACT (Reactant or reagent)
 (condensation of, with benzoyl isocyanates)

RN 16089-44-4 CAPLUS
 CN Benzenamine, 3-chloro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

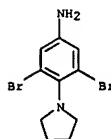
L13 ANSWER 237 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



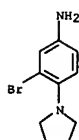
RN 85984-34-5 CAPLUS
 CN Benzenamine, 3,5-dichloro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 85984-36-7 CAPLUS
 CN Benzenamine, 3,5-dibromo-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

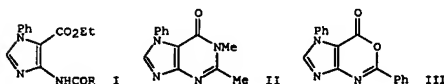


RN 85984-38-9 CAPLUS
 CN Benzenamine, 3-bromo-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 237 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L13 ANSWER 238 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1982:616123 CAPLUS
 DOCUMENT NUMBER: 97:216123
 TITLE: Phosphorus pentoxide in organic synthesis. I. Phosphorus pentoxide-amine hydrochloride mixtures as reagents in a new synthesis of hypoxanthines
 AUTHOR(S): Nielsen, F. E.; Pedersen, E. B.
 CORPORATE SOURCE: Dep. Chem., Odense Univ., Odense, DK-5230, Den.
 SOURCE: Tetrahedron (1982), 38(10), 1435-41
 CODEN: TETRAB; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 97:216123
 GI

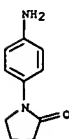


AB Twenty-three 1,7-dihydro-6H-purin-6-ones were prepared by cyclocondensation reaction of Et acylaminoimidazolecarboxylates I with primary amine hydrochlorides in N,N-dimethylcyclohexylamine (IV) containing P2O5.

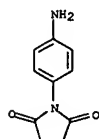
E.g., treatment of I (R = Me), prepared by acylation of the corresponding aminoimidazolecarboxylate, with MeNH2.HCl in IV containing P2O5 at 150° for 1 h gave 55% II. Three imidazooxazinones, e.g. III, were similarly prepared from the acylaminoimidazolecarboxylates having bulky 4-acylamino groups, e.g. I (R = Ph). II showed low plant bactericidal activity and low insecticidal activity against Spodoptera larvae. The purinones were tested against P 388 lymphocytic leukemia and found to be inactive.

IT 13691-22-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclocondensation reaction of, with acylaminoimidazolecarboxylates, purinone by, phosphorus pentoxide-catalyzed)

RN 13691-22-0 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 239 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1982:88135 CAPLUS
 DOCUMENT NUMBER: 96:88135
 TITLE: Structural dependence of the detergent-dispersing properties of succinimide additives
 AUTHOR(S): Ostroverkhov, V. G.; Glavati, O. L.; Glavati, E. V.; Tromas, T. I.
 CORPORATE SOURCE: Vses. Nauchno-Issled. Inst. Neftepererab. Neftekhim. Prom., Kiev, USSR
 SOURCE: Neftekhimiya (1981), 21(5), 740-7
 CODEN: NEFTAH; ISSN: 0028-2421
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB The dispersant properties were studied of a number mono[poly(isobutenyl)succinimido]polyamines (A) and bis[poly(isobutenyl)succinimido]polyamines (B) by a standardized procedure involving dispersion of carbon black in a lubricating oil. The best dispersant properties were obtained with A or B able to form H bonds. At 250° the dispersant activity of A decreased in the following amine radical series: C₆H₅NH₂-p > C₆H₅NH₂-m > 4-(4-aminophenoxy)phenyl > 4-(4-aminophenylmethyl)phenyl > 4-aminobiphenyl; for B the reverse activity order was observed. The best dispersants were B obtained from benzidine or a polyamide based on melamine.
 IT 34373-09-6D, polyisobutenyl deriva.
 RL: USES (Uses)
 (dispersants, for lubricating oils)
 RN 34373-09-6 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

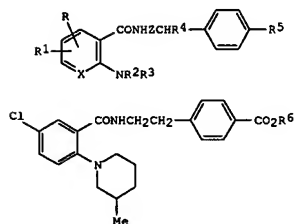


L13 ANSWER 240 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1981:515322 CAPLUS
 DOCUMENT NUMBER: 95:115322
 TITLE: Carboxylic acid derivatives and medicaments containing them
 INVENTOR(S): Griss, Gerhart; Sauter, Robert; Grell, Wolfgang; Hurnaus, Rudolf; Rupprecht, Eckhard; Kaubisch, Nikolaus; Kaehling, Joachim; Eisele, Bernhard; Piper, Helmut; Noll, Klaus
 PATENT ASSIGNEE(S): Thomae, Dr. Karl, G.m.b.H., Fed. Rep. Ger.
 SOURCE: Eur. Pat. Appl., 271 pp.
 CODEN: EFXDX#
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 23569	A1	19810211	EP 1980-103670	19800628
EP 23569	B1	19830622		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
DE 2928352	A1	19810115	DE 1979-2928352	19790713
DE 2949259	A1	19810611	DE 1979-2949259	19791207
DE 3016650	A1	19811105	DE 1980-3016650	19800430
DE 3016651	A1	19811105	DE 1980-3016651	19800430
EP 63826	A2	19821103	EP 1982-104991	19800628
EP 63826	A3	19821229		
EP 63826	B1	19841205		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 3862	E	19830715	AT 1980-103670	19800628
AT 10632	E	19841215	AT 1982-104991	19800628
AU 8060362	A1	19810115	AU 1980-60362	19800711
AU 535924	B2	19840412		
HU 27876	B	19831128	HU 1983-1085	19800711
HU 186675	B	19850930	HU 1980-1085	19800711
ES 501882	A1	19820301	ES 1981-501882	19810505
ES 501883	A1	19820301	ES 1981-501883	19810505
ES 501884	A1	19820301	ES 1981-501884	19810505
NO 8403735	A	19810114	NO 1984-3735	19840919
PRIORITY APPLN. INFO.:			DE 1979-2928352	A 19790713
			DE 1979-2949259	A 19791207
			DE 1980-3016650	A 19800430
			DE 1980-3016651	A 19800430
			EP 1980-103670	A 19800628
			EP 1982-104991	19800628

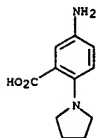
OTHER SOURCE(S): CASREACT 95:115322; MARPAT 95:115322
 GI

L13 ANSWER 240 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB Carboxamides I [R = H, Cl, Br, C4-7 cyclic alkylenimins; R1 = H, F, Cl, Br, Cl-6 alkyl or alkoxy, Ph-substituted Cl-3 alkoxy, OH, NO₂, NH₂, cyano, CO₂H, alkanoylamino, alkoxy-carbonyl, di-Cl-3-alkylamidodisulfonyl; R2, R3 independently = Cl-7 alkyl C3-7 alkenyl or cycloalkyl, Ph-substituted Cl-3 alkyl, Ph, adamantyl; NR2R3 = C4-6 cyclic (un)substituted alkylenimins optionally with CH₂ replaced by O, S, CO, S(O), S(O₂), C7-10 azabicycloalkyl, alkyl-substituted piperidino, C6-9 1,4-dioxo-8-azaspiroalkyl, (CH₂)_n (n = 3-5, 7-12); R4 = H, Cl-3 alkyl; R5 = H, halo, NO₂, NH₂, cyano, CHO, CH₂OH, CH₂CH₂CO₂H, (esterified) CO₂H, substituted Me, Ac, Et, H₂NCO, piperidino-, morpholino-, thiomorpholino-, or N-alkylpiperazinocarbonyl; X = N or CH; Z = O, an imino group, or a methylene group optionally subst. with 1 or 2 Cl-C3 alkyl groups] and their physiol. tolerable salts, useful as hypoglycemics, anticholesteremics, and hypolipemics (data tabulated), were prepared by numerous methods. Refluxing 2,5-Cl(O₂N)C₆H₃CO₂H and 2-methylpiperidine in EtOH gave 85% 2-(3-methylpiperidino)-5-nitrobenzoic acid which was hydrogenated over Pd/C to 75% the 5-amino analog II. Gattermann reaction of II gave 4% 5-chloro-3-(2-methylpiperidino) benzoic acid which reacted with N,N'-carbonyldiimidazole in THF to give the imidazolidine. Treating this with 4-(H₂NCH₂CH₂)C₆H₄CO₂Me gave 51% benzamide III (R₆ = Me), saponification of which gave 83% III (R₆ = H). At 5 mg/kg (rats), III (R = H) lowered blood sugar 44, 42, 38, and 35% after 1, 2, 3, and 4 h, resp.
 IT 16089-46-6F
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and Gattermann reaction of)
 RN 16089-46-6 CAPLUS
 CN Benzoic acid, 5-amino-2-(1-pyrrolidinyl)- (8CI, 9CI) (CA INDEX NAME)

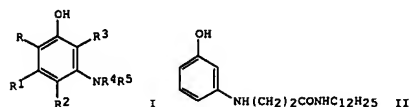
L13 ANSWER 240 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 241 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1981:22885 CAPLUS
 DOCUMENT NUMBER: 94:22885
 TITLE: Photosensitive silver halide photographic materials
 INVENTOR(S): Fujiiwara, Mitsuo; Kaneko, Yutaka; Kawasaki, Mikio; Masukawa, Toyosaki; Matsuo, Shunji
 PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
 SOURCE: U.S., 42 pp. Cont.-in-part of U.S. Ser. No. 726,635, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4200466	A	19800429	US 1978-874056	19780201
JP 52042725	A2	19770402	JP 1975-118480	19750930
			JP 1975-118480	A 19750930
PRIORITY APPLN. INFO.:			US 1976-726635	A2 19760927

GI



AB Photog. materials which are capable of producing a neutral black dye image of excellent stability to oxidation without having to be subjected to a special image stabilization treatment contain a m-aminophenol derivative

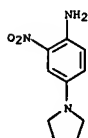
I

(R,R2 = H, halo, or a split-off group or ≥ 1 is OH, SH, NH2, alkylamino, or arylamino and the other a H, halo, or a split-off group; R1,R3 = H, halo, OH, alkyl, alkoxy, alkylamido, arylamido, alkylsulfonamido, or arylsulfonamido; R4,R5 = H, alkyl, aralkyl, aryl, or alkenyl) as the black dye image forming coupler. These couplers are especially applicable to black-and-white photog. to produce imaging materials having a greatly reduced Ag content and greatly increased speed. Thus, II (prepared by treatment of m-aminophenol with N-dodecyl- β -bromomethylamide) 10 g was dissolved in EtOAc 30 mL and di-Bu phthalate 10 g, the solution mixed with 10% aqueous Alkanol B 5 mL and then dispersed in 5% aqueous gelatin 200 mL. This dispersion was added to a gelatin-Ag(Br,I) emulsion 500 g, and the emulsion coated on a cellulose triacetate support at 20 mg Ag/100 cm² of support. The finished material was then exposed and developed to show a speed of 105, a γ of 0.46, a fog of 0.06, and a Dmax of 2.6 vs. 65, 0.22, 0.03, and 1.1, resp., for a II-free control and 100, 0.43, 0.05, and 2.7, resp., for a II-free control containing 40 mg Ag/100 cm² of support.

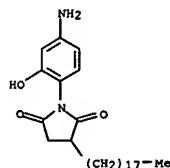
L13 ANSWER 242 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1980:494913 CAPLUS
 DOCUMENT NUMBER: 93:94913
 TITLE: Cine and tele substitutions in the reaction of 2,3-dinitroaniline with secondary amines
 AUTHOR(S): Self, David P.; West, David E.; Stillings, Michael R.
 CORPORATE SOURCE: Sch. Chem., Leicester Polytech., Leicester, LE1 9BH, UK
 SOURCE: Journal of the Chemical Society, Chemical Communications (1980), (6), 281-2
 CODEN: JCCCAT; ISSN: 0022-4936
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 93:94913
 AB Nucleophilic aromatic cine and tele substitutions occur simultaneously in the reactions of 2,3-(O2N)2C6H3NH2 (I) with secondary amines; the cine substitution is novel. Thus I with piperidine (reflux, 0.25 h) gave 29% 2-nitro-3-N-piperidinoaniline by normal nucleophilic displacement, 23% 2-nitro-4-N-piperidinoaniline by novel cine substitution, and 12% 2-nitro-6-N-piperidinoaniline by tele substitution. Morpholine and N-methylpiperazine reacted analogously. However reaction of I with pyrrolidine gave only normal and cine substitution products; this anomalous behavior being due to the cyclic amine being intermediate in character between primary and true secondary amines.

IT 52373-52-1P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 52373-52-1 CAPLUS
 CN Benzenamine, 2-nitro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



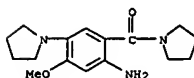
L13 ANSWER 241 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 IT 63966-95-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with propane sulfone)
 RN 63966-95-0 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-amino-2-hydroxyphenyl)-3-octadecyl- (9CI) (CA INDEX NAME)



L13 ANSWER 243 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1980:448516 CAPLUS
 DOCUMENT NUMBER: 93:48516
 TITLE: Synthesis of highly photo-sensitive diazo type compounds
 AUTHOR(S): Yang, Chu-Yao; Chou, An-Kuan; Huang, Yung-Ming; Ku, Min-Min; Lin, Kuo-Mei
 CORPORATE SOURCE: Fudan Univ., Shanghai, Peop. Rep. China
 SOURCE: Fudan Xuebao, Ziran Kexueban (1977), (4), 103-10
 CODEN: FHPTAY; ISSN: 0427-7104
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 AB 2,5-Diethoxy-4-morpholindiazobenzene salts and 5-methoxy-4-pyrrolidyl-2-pyrrolidylcarbonyldiazobenzene zinc chloride salt [74127-04-1] were prepared 2,5-Diethoxy-4-morpholinonitrobenzene [86-16-8] and 5-methoxy-4-pyrrolidyl-2-pyrrolidylcarbonylnitrobenzene [74127-05-2] were reduced in the presence of Na2S2O4 to the corresponding amines. 2,5-Diethoxybromobenzene [64306-70-3] was nitrated with dilute HNO3 in the absence of HOAc to prepare 2,5-diethoxy-4-nitrobromobenzene [74127-06-3].

IT 25903-55-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and diazotization of)

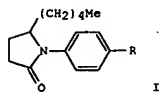
RN 25903-55-3 CAPLUS
 CN Pyrrolidine, 1-[2-amino-4-methoxy-5-(1-pyrrolidinyl)benzoyl]- (9CI) (CA INDEX NAME)



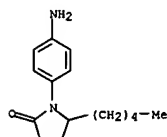
L13 ANSWER 244 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 1980:185916 CAPLUS
DOCUMENT NUMBER: 92:185916
TITLE: 5-Amyl-N-phenyl-2-pyrrolidinones with antimicrobial activity
INVENTOR(S): Sedavkina, V. A.; Bespalova, G. V.
PATENT ASSIGNEE(S): Saratov State University, USSR
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obratzys, Tovarnye Znaki 1979, (42), 96.
CODEN: URJXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 697505	T	19791115	SU 1978-2599426	19780309
PRIORITY APPLN. INFO.:			SU 1978-2599426	A 19780309

GI



AB I (R = H) [73489-91-5], I (R = OH) [73489-92-6], and I (R = NH2) [73489-93-7] possess the title activity.
IT 73489-93-7
RL: BIOL (Biological study) (antimicrobial)
RN 73489-93-7 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)-5-pentyl- (9CI) (CA INDEX NAME)



L13 ANSWER 245 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

AB 3-Anilino-1,2-propanediols underwent cyclocondensation with Et2CO3 to yield oxazolidinones I (R = 3- or 4-NH2, 3-NMe2, 4-NH(CH2)4Me, 4-pyrrolidino, 4-piperidino, 4-CF3, 3-Et, 4-CH2OH, 4-(N-alkyl-N-benzylamino), 4-[(2-methyl-1,3-dioxolan-2-ylmethyl)thio], 4-SR1(R1 = alkyl, cyclohexyl, MeCOCH2), 4-OR2 (R2 = alkyl, cycloalkylmethyl, 2-alkenyl, 3-butenyl, 4-pentenyl, 1-cycloalkenylmethyl, crotonyl, 4-(R3C6H4CH2O) (R3 = Me, F, cyano, CF3, Cl, Br, NO2, NHAc), 4-(R4R5C6H3CH2O) (R4 = Cl, F; R5 = Cl, F, NO2, cyano), 4-[(heteroaryl)methoxy] (heteroaryl = pyridyl, thienyl, furyl, pyrazinyl), 4-COR6 (R6 = H, alkyl), 3- or 4-alkoxy(1-methoxy, 3- or 4-O(CH2)nCN (n = 1,2), 4-OCH2OMe, 4-(2-morpholinoethoxy), 4-C(:NOH)CH2O], which showed antidepressant activity. A mixture of 4-(EtS)C6H4NHCH2CH(OH)CH2OH, Et2CO3, and Et3N was heated 5 h at 100 - 10° to give I (R = 4-SEt).
IT 2632-65-7
RL: RCT (Reactant); RACT (Reactant or reagent) (ring cleavage of glycidol by)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

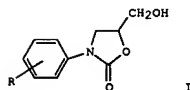


L13 ANSWER 245 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 1979:507971 CAPLUS
DOCUMENT NUMBER: 91:107971
TITLE: 5-Hydroxymethylloxazolidin-2-ones
INVENTOR(S): Dostert, Philippe; Douzon, Colette; Bourger, Guy; Gouret, Claude; Mocquet, Gisele; Coston, Jean Alain
PATENT ASSIGNEE(S): Delalande S. A., Fr.
SOURCE: Fr. Demande, 35 pp.
CODEN: FRXKBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

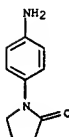
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2381037	A2	19780915	FR 1977-26105	19770826
FR 2381037	B2	19810529		
CH 618975	A	19800829	CH 1977-2191	19770222
BE 869521	A4	19790205	BE 1978-189699	19780604
US 4250519	A	19810210	US 1978-932212	19780809
CH 634836	A	19830228	CH 1978-8613	19780814
GB 2003151	A	19790307	GB 1978-33478	19780816
GB 2003151	B2	19821006		
ZA 7804685	A	19790829	ZA 1978-4685	19780817
DE 2836305	A1	19790301	DE 1978-2836305	19780818
JP 63054710	B4	19881028	JP 1978-100824	19780818
SE 7808804	A	19790227	SE 1978-8804	19780821
SE 444813	B	19860512		
SE 444813	C	19860821		
ES 472825	A1	19790216	ES 1978-472825	19780824
AU 7839249	A1	19800228	AU 1978-39249	19780824
AU 526714	B2	19830127		
CA 1113093	A1	19811124	CA 1978-310018	19780824
NL 7808817	A	19790228	NL 1978-8817	19780825
CH 627460	A	19820115	CH 1980-283	19800114
US 4338451	A	19820706	US 1980-174415	19800801
PRIORITY APPLN. INFO.:			CH 1977-2191	A 19770222

FR 1976-5751	A	19760301
FR 1976-19578	A	19760628
FR 1977-26105	A	19770826
FR 1978-15342	A	19780523
US 1978-932212	A3	19780809

GI



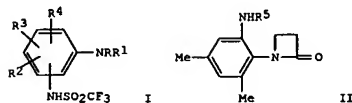
L13 ANSWER 246 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 1979:405060 CAPLUS
DOCUMENT NUMBER: 91:5060
TITLE: Synthesis of α -methylenebutyrolactams as potential antitumor agents
AUTHOR(S): Kornet, Milton J.
CORPORATE SOURCE: Coll. Pharm., Univ. Kentucky, Lexington, KY, 40506, USA
SOURCE: Journal of Pharmaceutical Sciences (1979), 68(3), 350-3
CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 91:5060
AB A series of 1-aryl-3-methylene-2-pyrrolidinones was synthesized via a three-step reaction sequence. 1,4-Bis(3-methylene-2-oxopyrrolidin-2-yl)benzene, which can undergo alkylation at 2 sites, was also prepared. These compds. are related to the known antitumor agents α -methylenebutyrolactones. Attempts to prepare bis- α -methylenebutyrolactams, in which the heterocyclic rings are joined through their N atoms by an alkylene bridge, were unsuccessful. All of the α -methylenebutyrolactams were screened in B16 melanocarcinoma and P-388 lymphocytic leukemia tumor systems but failed to show significant activity.
IT 13691-22-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with di-Et oxalate)
RN 13691-22-0 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



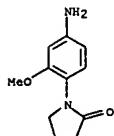
L13 ANSWER 247 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1979:121396 CAPLUS
 DOCUMENT NUMBER: 90:121396
 TITLE: Plant growth regulating N-phenyl-substituted N-heterocyclic compounds
 INVENTOR(S): Tobler, Hans; Foery, Werner; Schurter, Rolf
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
 SOURCE: Ger. Offen., 77 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2815820	A1	19781026	DE 1978-2815820	19780412
DE 2815820	C2	19891228		
CH 629076	A	19820415	CH 1977-4702	19770415
CH 632131	A	19820930	CH 1977-13661	19771109
NL 7803885	A	19781017	NL 1978-3885	19780412
FR 2387219	B1	19821119	FR 1978-10761	19780412
FR 2387219	A1	19781110		
DD 137655	C	19790919	DD 1978-204774	19780413
AU 7835084	A1	19791018	AU 1978-35084	19780413
AU 520407	B2	19820128		
CA 1102801	A1	19810609	CA 1978-301079	19780413
IL 54501	A1	19820930	IL 1978-54501	19780413
BE 865979	A1	19781016	BE 1978-186784	19780414
DK 7801646	A	19781016	DK 1978-1646	19780414
SE 7804244	A	19781016	SE 1978-4244	19780414
BR 7802330	A	19790213	BR 1978-2330	19780414
ZA 7802158	A	19790328	ZA 1978-2158	19780414
ES 468807	A1	19791216	ES 1978-468807	19780414
GB 1593809	A	19810722	GB 1978-14762	19780414
AT 7802640	A	19820815	AT 1978-2640	19780414
AT 370280	B	19830310		
HU 185923	B	19850328	HU 1978-C11825	19780414
CS 274252	B2	19910411	CS 1978-2445	19780414
JP 53130652	A2	19781114	JP 1978-44739	19780415
JP 03021545	B4	19910322		
PRIORITY APPLN. INFO.:			CH 1977-4702	A 19770415
			CH 1977-13661	A 19771109

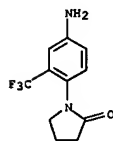
OTHER SOURCE(S): CASREACT 90:121396
 GI



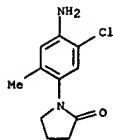
L13 ANSWER 247 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 247 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 AB Trifluoromethanesulfonamides I (NRR1 = optionally substituted N-heterocycle; R2-R4 = H, halogen, Cl-4 alkyl, haloalkyl, CH, NO2, CSNH2, optionally substituted CH2Ph, alkylthio, alkylsulfinyl, alkylsulfonyl, alkoxy, acyloxy, CO2H, alkoxycarbonyl) were prepared for use as herbicides and plant growth inhibitors (no data). Thus, 3,4,6-O2N(Me2)C6H2NHCOCH2CH2Cl was cyclized and hydrogenated to give II (R5 = H) which was treated with (CF3SO2)2O to give II (R5 = SO2CF3).
 IT 69131-62-0P 69132-29-2P 69132-30-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, with trifluoromethanesulfonic anhydride)
 RN 69131-62-0 CAPLUS
 CN 2-Pyrrolidinone, 1-[4-amino-2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

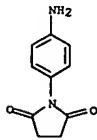


RN 69132-29-2 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-5-chloro-2-methylphenyl)- (9CI) (CA INDEX NAME)



RN 69132-30-5 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-2-methoxyphenyl)- (9CI) (CA INDEX NAME)

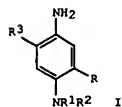
L13 ANSWER 248 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1979:2713 CAPLUS
 DOCUMENT NUMBER: 90:2713
 TITLE: The histochemistry of thiols and disulfides. II. Methodology of differential staining
 AUTHOR(S): Sippel, T. O.
 CORPORATE SOURCE: Dep. Anat., Univ. Michigan, Ann Arbor, MI, USA
 SOURCE: Histochemical Journal (1978), 10(5), 585-95
 CODEN: HISJAE; ISSN: 0018-2214
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The reduction of SS bonds by various mercaptans and tri-n-butylphosphine (I) was examined in paraffin sections of rat tissues. A re-reduction procedure demonstrating any residual disulfides showed that nearly equivalent endpoints were reached by all of the reagents at pH 8.5 and room temperature, though at greatly differing rates. I is the reductant of choice in that it acts rapidly, cannot cause the thiolation which is more or less pronounced with certain mercaptans and causes the least reversal of the prior alkylation of native SH groups by iodoacetate or N-substituted maleimides. Supporting studies established that, except in highly compact structures, native as well as generated SH groups can be visualized with satisfactory completeness and specificity by N-(4-aminophenyl)maleimide followed by a diazotization and coupling sequence. These findings provide the basis for the selective staining of disulfides, either alone or differentiated from native thiols in the same section.
 IT 34373-09-6
 RL: ANST (Analytical study)
 (in staining, of thiols and disulfides in animal tissues)
 RN 34373-09-6 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 249 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:161435 CAPLUS
DOCUMENT NUMBER: 88:161435
TITLE: Color developer for diffusion transfer
INVENTOR(S): Panasik, Theodore; Viro, Felix; Waxman, Burton H.;
Shannahan, Robert T.
PATENT ASSIGNEE(S): GAF Corp., USA
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

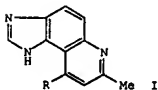
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4066457	A	19780103	US 1974-531400	19741210
PRIORITY APPLN. INFO.:			US 1974-531400	A 19741210

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AB A diffusion-transfer photog. element containing a lipophilic, nondiffusing color former in a Ag halide emulsion layer, or in a layer adjacent thereto, is developed by using a water- and alkali-soluble color developer I
(R = H, CO2M, or SO3M where M is H or a cation; R1, R2 = H, lower alkyl, lower alkanoyl, unsubstituted or substituted by CO2M or SO3M, or R1 and R2 taken together form a saturated heterocycle; R3 = H, lower alkyl, or lower alkoxy) capable of coupling with the color former to form a diffusible coupled product, the color developer being coated with the Ag halide emulsion layer or in any layer of the photog. element or being in an alkaline developing solution. Thus, a polyester support coated with a red-sensitive gelatin-Ag(Br,I) emulsion containing a cyan coupler was imagewise exposed and then contacted with an acid-treated gelatin receiving sheet in a developer solution containing Na2SO3 8, Na hexametaphosphate 1, 5-amino-2-morpholinebenzoic acid 5, Na2CO3 10, NaBr 1g, and water to 1 L. After 2 min contact the neg. material was peeled apart from the receiving sheet to give a transferred cyan colored neg. image on the receiving sheet.
IT 16089-45-5P 16089-46-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 16089-45-5 CAPLUS
CN Benzenesulfonic acid, 5-amino-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

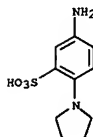
L13 ANSWER 250 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:22744 CAPLUS
DOCUMENT NUMBER: 88:22744
TITLE: Imidazo[4,5-f]quinolines. III. Antibacterial
7-methyl-9-(substituted arylamino)imidazo[4,5-f]quinolines
AUTHOR(S): Snyder, Harry R., Jr.; Spencer, Claude F.; Freedman, Raymond
CORPORATE SOURCE: Norwich Pharm. Co. Div., Morton-Norwich Prod., Inc.,
Norwich, NY, USA
SOURCE: Journal of Pharmaceutical Sciences (1977), 66(8),
1204-6
CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 88:22744
GI



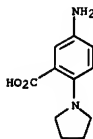
AB Imidazoquinolines I (R = 2,3,4,5-RR1R2R3C6HNNH; R = H, MeO; R1 = H, Cl, OH,
or RR1 = benzo; R2 = H, F, Cl, OH, NH2, Bz, CO2Et, 1-pyrrolidinyl,
morpholino, etc; R3 = H, Ac or R2R3 = benzo) (II) were prepared by
amination of I (R = Cl) with anilines 2,3,4,5-RR1R2R3C6HNNH2. I are bactericides
against gram-pos. and -neg. bacteria. The min. inhibitor concns. of I
against Staphylococcus aureus were 3.1-500 µg/mL.
IT 2632-65-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(amination of chloroimidazoquinoline by)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



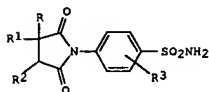
L13 ANSWER 249 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



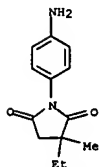
RN 16089-46-6 CAPLUS
CN Benzoic acid, 5-amino-2-(1-pyrrolidinyl)- (8CI, 9CI) (CA INDEX NAME)



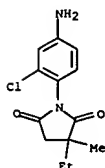
L13 ANSWER 251 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:15769 CAPLUS
DOCUMENT NUMBER: 88:15769
TITLE: Development of new antiepileptic drugs. I. Anticonvulsant activity of N-(p-sulfamoylphenyl)succinimide derivatives
Waser, P. G.; Ganz, A. J.; Pfirrmann, R. W.
Pharmakol. Inst., Univ. Zurich, Zurich, Switz.
Arzneimittel-Forschung (1977), 27(10), 1942-53
CODEN: ARZNAD; ISSN: 0004-4172
DOCUMENT TYPE: Journal
LANGUAGE: German
GI



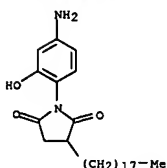
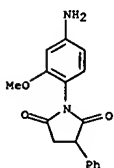
AB One hundred eighteen N-phenylsuccinimides, many of which were substituted
derivs. of N-(p-sulfamoylphenyl)succinimide (I), were screened for oral
anticonvulsant activity against electroshock- and pentylenetetrazole-
induced convulsions in mice. The compds. contained a wide variety of
substituents at all possible locations on the 2 rings. None of the
compds. was active against pentylenetetrazole shock, but some were very
effective in protecting against electroshock. The p-sulfonamido group
was of major importance for anticonvulsant activity, and this was enhanced by
the presence of a halogen atom, especially F or Cl in the ortho or meta
position of the phenyl group. Aliphatic or aromatic groups at position 3 on the
succinimide moiety were also important for good anticonvulsant activity.
The oral LD50 values of most of the compds. was >5000 mg/kg. Sublethal
toxic manifestations were drowsiness, myoclonic twitches, and diarrhea.
Sedation and analgesia were seldom observed at therapeutic doses.
IT 65116-42-9 65116-51-0 65149-24-8
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study);
USES
(Uses)
(anticonvulsant activity of)
RN 65116-42-9 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)-3-ethyl-3-methyl- (9CI) (CA
INDEX NAME)



RN 65116-51-0 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(4-amino-2-chlorophenyl)-3-ethyl-3-methyl- (9CI)
(CA INDEX NAME)



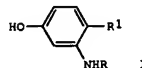
RN 65149-24-8 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(4-amino-2-methoxyphenyl)-3-phenyl- (9CI) (CA
INDEX NAME)



L13 ANSWER 252 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1977:509394 CAPLUS
DOCUMENT NUMBER: 87:109394
TITLE: Light-sensitive photographic silver halide recording material
INVENTOR(S): Fujiwara, Mitsuoto; Matsuo, Syunji; Kawasaki, Mikio;
Masukawa, Toyooki; Kaneko, Yutaka
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Ger. Offen., 91 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2644194	A1	19770421	DE 1976-2644194	19760930
DE 2644194	B2	19800925		
DE 2644194	C3	19820513		
JP 52042725	A2	19770402	JP 1975-118480	19750930
GB 1564349	A	19800410	GB 1976-40129	19760928
			JP 1975-118480	A 19750930

GI



AB Photog. films requiring less Ag for production of black images contain 3-aminophenols which couple with oxidized aromatic primary amine developers to form black dyes. Typical 3-aminophenols are I (R = C18H37, R1 = H), I

(R = CH2CH2CONHC12H25, R1 = H) (II), and I (R = CHMeCO2C16H33, R1 = OCH2CO2Bu). Thus, an acetate support coated with a gelatin layer

containing II and AgI(Br) was exposed through an optical step wedge and developed with 3,4-Me(H2N)C6H3NEtCH2CH2NH2SO2Me.1.5H2SO4 to give a bluish black image

with sp. sensitivity 105, γ 0.46, fog 0.06, and maximum d. 2.6, compared with 100, 0.43, 0.05, and 2.7, resp., when a film containing no

II but twice as much Ag was similarly exposed and developed with a p-MeNHC6H4OH.H2SO4-hydroquinone mixture Eighty-two couplers are described, and details are given for the preparation of 14 of these compds.

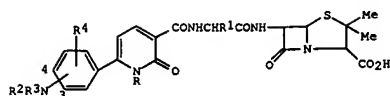
IT 63966-95-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(Preparation and reaction of, with propane sultone)

RN 63966-95-0 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(4-amino-2-hydroxyphenyl)-3-octadecyl- (9CI) (CA
INDEX NAME)

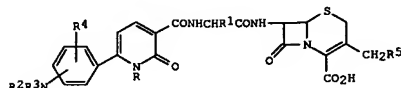
L13 ANSWER 253 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1976:508683 CAPLUS
DOCUMENT NUMBER: 85:108683
TITLE: Antibacterial amide compounds
INVENTOR(S): Doub, Leonard; Kaltenbronn, James S.; Schweiss,
Dieter
PATENT ASSIGNEE(S): Parke, Davis and Co., USA
SOURCE: U.S., 27 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3954734	A	19760504	US 1974-534031	19741223
ZA 7500046	A	19760825	ZA 1975-46	19750102
BE 824579	A1	19750515	BE 1975-152538	19750120
SE 7500570	A	19750722	SE 1975-570	19750120
NL 7500645	A	19750723	NL 1975-645	19750120
JP 50106995	A2	19750822	JP 1975-8596	19750120
DK 7500149	A	19750922	DK 1975-149	19750120
FR 2263764	A1	19751010	FR 1975-1608	19750120
AT 7500364	A	19760915	AT 1975-364	19750120
AT 336788	B	19770525		
GB 1464525	A	19770216	GB 1975-2461	19750120
ES 433981	A1	19770301	ES 1975-433981	19750120
AU 7577676	A1	19760729	AU 1975-77676	19750129
US 4053470	A	19771011	US 1976-650098	19760119
AT 7602182	A	19770215	AT 1976-2182	19760325
AT 339482	B	19771025		
ES 448721	A1	19770716	ES 1976-448721	19760610
			US 1974-434763	A2 19740121
			US 1974-534031	A3 19741223
			AT 1975-364	A 19750120

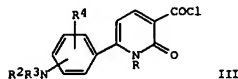
GI



I

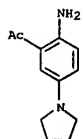


II



III

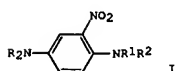
AB Penicillin and cephalosporin analogs I and II [R = H, Me; R1 = Ph, 4-HOC6H4, 2-thienyl, 1,4-cyclohexadien-1-yl; R2R3N = 3-H2N, 3- and 4-Me2N, 3-Et2N, 4-(4-methyl-1-piperazinyl), 4-(4-propyl-1-piperazinyl), 4-piperidinopiperidino, 4-(4-phenyl-1-piperazinyl), 4-(4-benzyl-1-piperazinyl); R4 = H, 3-Cl, 3-Br; R5 = H, AcO, (5-methyl-1,3,4-thiadiazol-2-yl)thio, 2-pyrimidinylthio] (36 compds.) and their salts, which are active in vitro against gram pos. and gram neg. bacteria, were prepared by acylation of ampicillin, epicillin, amoxicillin, and cephaloglycin by nicotinoyl chlorides III. Thus, a solution of Na ampicillin in AcNMe2 was treated with Me3SiCl and Et5N. This suspension treated with III (R = R4 = H, R2R3N = 4-Me2N) gave I (R = R4 = H, R1 = Ph, R2R3N = 4-Me2N).
 IT 56915-84-5
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 RN 56915-84-5 CAPLUS
 CN Ethanone, 1-[2-amino-5-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



L13 ANSWER 254 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1976:495803 CAPLUS
 DOCUMENT NUMBER: 85:95803
 TITLE: Aryl-substituted nitro-p-phenylenediamine compounds
 INVENTOR(S): Bil, Milos S.
 PATENT ASSIGNEE(S): Bristol-Myers Canada Ltd., Can.
 SOURCE: Can., 53 pp.
 CODEN: CAXXA4
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

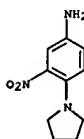
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 989862	A1	19760525	CA 1972-151586	19720913
PRIORITY APPLN. INFO.:			US 1972-230042	A 19720228

GI



I

AB Nitro-p-phenylenediamines [I, R = H, CH2CH2OH; R1 = H, CH2CH2OH, Me, CH2CH2NEt2, CH2CH2CH2NHCH2CH2CH2NH2, CMe3, cyclohexyl, C(CH2OH)3, phenyl and substituted phenyl; R2 = H; (R1R2N) = pyrrolidino, morpholino, piperidino] were prepared by treating 4,3-F(ON)C6H3NR2 with R1R2NH.
 When R1 = phenyl and substituted phenyl, R2 = H, and R = CH2CH2OH, I were used for dyeing hair and polyamide fibers. Related acyl derivs. were prepared by acylating 4,3-F(ON)C6H3NH2 [364-76-1] and treating with R1R2NH.
 IT 5367-57-7P
 RL: IMP (Industrial manufacture); PREP (Preparation)
 RN 5367-57-7 CAPLUS
 CN Benzenamine, 3-nitro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



I



II



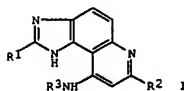
III

AB Penicillin and cephalosporin analogs I and II [R = H, Me; R1 = Ph, 4-HOC6H4, 2-thienyl, 1,4-cyclohexadien-1-yl; R2R3N = 3-H2N, 3- and 4-Me2N, 3-Et2N, 4-(4-methyl-1-piperazinyl), 4-(4-propyl-1-piperazinyl), 4-piperidinopiperidino, 4-(4-phenyl-1-piperazinyl), 4-(4-benzyl-1-piperazinyl); R4 = H, 3-Cl, 3-Br; R5 = H, AcO, (5-methyl-1,3,4-thiadiazol-2-yl)thio, 2-pyrimidinylthio] (36 compds.) and their salts, which are active in vitro against gram pos. and gram neg. bacteria, were prepared by acylation of ampicillin, epicillin, amoxicillin, and cephaloglycin by nicotinoyl chlorides III. Thus, a solution of Na ampicillin in AcNMe2 was treated with Me3SiCl and Et5N. This suspension treated with III (R = R4 = H, R2R3N = 4-Me2N) gave I (R = R4 = H, R1 = Ph, R2R3N = 4-Me2N).
 IT 56915-84-5
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 RN 56915-84-5 CAPLUS
 CN Ethanone, 1-[2-amino-5-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 255 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1976:433014 CAPLUS
 DOCUMENT NUMBER: 85:33014
 TITLE: 9-(p-Phenylazoanilino)-7-methyl-1H-imidazo[4,5-f]quinolines
 INVENTOR(S): Spencer, Claude F.; Snyder, Harry R., Jr.
 PATENT ASSIGNEE(S): Morton-Norwich Products, Inc., USA
 SOURCE: U.S., 18 pp. Division of U.S. 3,919,238.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

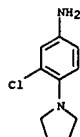
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3947434	A	19760330	US 1975-562172	19750326
US 3919238	A	19751111	US 1973-367501	19730606
ZA 7400683	A	19750924	ZA 1974-683	19740201
AU 7465236	A1	19750904	AU 1974-65236	19740206
GB 1398508	A	19750625	GB 1974-7112	19740215
NL 7404135	A	19741210	NL 1974-4135	19740327
SE 7405652	A	19741209	SE 1974-5652	19740426
SE 391925	B	19770307		
FR 2232313	A1	19750103	FR 1974-19427	19740605
JP 50019777	A2	19750301	JP 1974-62992	19740605
BE 816003	A1	19741206	BE 1974-145152	19740606
DK 7403019	A	19750203	DK 1974-3019	19740606
DK 133556	B	19760608		
PRIORITY APPLN. INFO.:			US 1973-367501	A3 19730606

GI



I

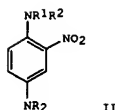
AB Anthelmintics (no data) I (R1 = H, Me, Ph; R2 = H, Me, Et, Ph; R3 = e.g., Ph, α- or β-naphthyl, 4-MeC6H4, 2,5-, 3,4-, or 3,2-ClMeC6H3, 3-F3CC6H4, 4-(EtCHMe)C6H4, o-PhC6H4, 3,4-Cl2C6H3, 4-BrC6H4, 4-Me2NC6H4, 3-chloro-4-piperidinophenyl, 3-chloro-4-(N-methylpiperazino)phenyl, 4-MeSC6H4, p-phenylazophenyl, 4-MeOC6H4, 6-(N-methylpiperazinyl)-3-pyridyl) (81 compds.) were prepared by reduction of the R3NO2 with Raney Ni followed by condensation with the corresponding 9-chloro-1H-imidazo[4,5-f]quinoline. Thus, 7-methyl-9-imidazo[4,5-f]quinolinol, prepared by cyclization of Et 3-(5-benzimidazolylamino)crotonate, was chlorinated with POCl3 and then treated with PhNH2 to give I (R1 = H, R2 = Me, R3 = Ph).
 IT 16089-44-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 RN 16089-44-4 CAPLUS
 CN Benzenamine, 3-chloro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 256 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1976:420825 CAPLUS
 DOCUMENT NUMBER: 85:20825
 TITLE: 4-Fluoro-3-nitroanilines
 INVENTOR(S): Bill. Milos S.
 PATENT ASSIGNEE(S): Clairol, Inc., USA
 SOURCE: U.S., 10 pp. Division of U.S. 3,632,582.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 6
 PATENT INFORMATION:

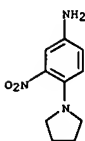
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3944612	A	19760316	US 1970-93465	19701127
US 3632582	A	19720104	US 1968-719682	19680408
FR 1581135	A	19690912	FR 1968-1581135	19680726
US 3959377	A	19760525	US 1972-302073	19721030
US 30798	E	19811117	US 1977-806976	19770616
PRIORITY APPLN. INFO.:			US 1968-719682	A3 19680408
			US 1970-683758	A3 19701102
			US 1967-683751	A 19671102
			US 1967-683758	A3 19671102
			US 1968-725936	A3 19680501
			US 1970-93465	A2 19701107
			US 1970-92868	A2 19701125
			US 1972-230042	A2 19720228
			US 1973-348403	A1 19730405

GI

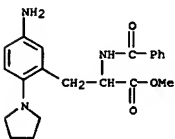


AB Nitration of p-FC6H4NH2 with HNO3-H2SO4 gave 4,3-F(O2N)C6H3NH2 (I). I and its N-hydroxyethylated derivative reacted with NH3 or aliphatic or heterocyclic amines to give II (R = H, CH2CH2OH; e.g., R1R2N = NH2, HOCH2CH2NH, Me2N, cyclohexylamino, pyrrolidino, morpholino) (apprx.20 in all). Thus, a mixture of I, H2NCH2CH2OH, and Na2CO3 in H2O was refluxed 4-5 hr to give II (R = R1 = H, R2 = CH2CH2OH).

L13 ANSWER 256 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 IT 5367-57-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 5367-57-7 CAPLUS
 CN Benzenamine, 3-nitro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

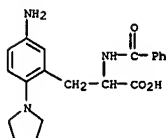


L13 ANSWER 257 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1975:593148 CAPLUS
 DOCUMENT NUMBER: 83:193148
 TITLE: Preparation and reactions of (dialkylamino)aryl)methylene-substituted azlactones (oxazol-5-ones)
 AUTHOR(S): Niewiadomski, Krzysztof B.; Suschitzky, Hans
 CORPORATE SOURCE: Ramage Lab., Univ. Salford, Salford, UK
 SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1975), (17), 1679-82
 CODEN: JCPRB4; ISSN: 0300-922X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 83:193148
 GI For diagram(s), see printed CA Issue.
 AB O-(dialkylamino)benzaldehydes, prepared from o-FC6H4CHO and morpholine, pyrrolidine, piperidine, and dihydroazepine in hot THF, with BzNHCH2CO2H gave the azlactones I [X = O, (CH2)n, n = 0-2; R = H, resp.]. I with EtOH-NaOH, MeOH-NaOAc, N2H4, p-EtO2CC6H4NH2 gave the amides II (R = CO2H, CO2Me, CONHNH2, CONHC6H4CO2Et-p, resp.), and with PhMgBr gave carbinols
 II [R = CPh2OH, X = (CH2)n] which in HCl cyclized to indenones III (n = 0-2). The azlactones I (R = NO2) prepared from 2,4-Cl(O2N)C6H4CHO, reacted similarly.
 IT 58029-08-6P 58029-11-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 58029-08-6 CAPLUS
 CN Phenylalanine, 5-amino-N-benzoyl-2-(1-pyrrolidinyl)-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 58029-11-1 CAPLUS
 CN Phenylalanine, 5-amino-N-benzoyl-2-(1-pyrrolidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

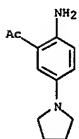


● HCl

L13 ANSWER 258 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1975:564214 CAPLUS
 DOCUMENT NUMBER: 82:164214
 TITLE: Modified antibiotics
 INVENTOR(S): Doub, Leonard; Kaltenbronn, James S.; Schweiss, Dieter
 PATENT ASSIGNEE(S): Parke, Davis and Co., USA
 SOURCE: Ger. Offen., 86 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2502119	A1	19750724	DE 1975-2502119	19750120
ZA 7500046	A	19760825	ZA 1975-46	19750102
BE 824579	A1	19750515	BE 1975-152538	19750120
SE 7500570	A	19750722	SE 1975-570	19750120
NL 7500645	A	19750723	NL 1975-645	19750120
JP 50106995	A2	19750822	JP 1975-8596	19750120
DK 7500149	A	19750922	DK 1975-149	19750120
FR 2263764	A1	19751010	FR 1975-1608	19750120
AT 7500364	A	19760915	AT 1975-364	19750120
AT 336788	B	19770525		
GB 1464525	A	19770216	GB 1975-2461	19750120
ES 433981	A1	19770301	ES 1975-433981	19750120
AU 7577676	A1	19760729	AU 1975-77676	19750129
AT 7602182	A	19770215	AT 1976-2182	19760325
AT 339482	B	19771025		
ES 448721	A1	19770716	ES 1976-448721	19760610
PRIORITY APPLN. INFO.:				US 1974-434763 A 19740121
				AT 1975-364 A 19750120

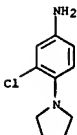
GI For diagram(s), see printed CA Issue.
 AB Penicillins, such as I, and cephalosporins including II [R = Ph, 4-HOC6H4, 2-thienyl; NR1R2 = 4-(4-methylpiperazino), 3-(4-methylpiperazino), 3-Me2N, 3-Et2N, 3-H2N, 3-piperidino, 4-(4-piperidino)piperidino, 4-(4-phenylpiperazino), 4-(4-ethylpiperazino), 4-(4-propylpiperazino), 4-morpholino; R3 = OAc, 5-methyl-1,3,4-thiadiazol-2-ylthio, 2-pyrimidinylthio] were prepared. Thus, ampicillin was treated with 6-[4-(4-methylpiperazino)phenyl]-1,2-dihydro-2-oxonicotinoyl chloride to give I [R = Ph, NR1R2 = 4-(4-methylpiperazino)].
 IT 56915-84-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and deamination of)
 RN 56915-84-5 CAPLUS
 CN Ethanone, 1-[2-amino-5-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME):



L13 ANSWER 259 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1975:170927 CAPLUS
 DOCUMENT NUMBER: 82:170927
 TITLE: 9-Aminoimidazo[4,5-f]quinoline derivatives
 INVENTOR(S): Spencer, Claude F.; Snyder, Harry R., Jr.
 PATENT ASSIGNEE(S): Morton-Norwich Products, Inc.
 SOURCE: Ger. Offen., 72 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2427409	A1	19750109	DE 1974-2427409	19740606
US 3919238	A	19751111	US 1973-367501	19730606
ZA 7400683	A	19750924	ZA 1974-683	19740201
AU 7465236	A1	19750904	AU 1974-65236	19740206
GB 1398508	A	19750625	GB 1974-7112	19740215
NL 7404135	A	19741210	NL 1974-4135	19740327
SE 7405652	A	19741209	SE 1974-5652	19740426
SE 391925	B	19770307		
FR 2232313	A1	19750103	FR 1974-19427	19740605
JP 50019777	A2	19750301	JP 1974-62992	19740605
BE 816003	A1	19741206	BE 1974-145152	19740606
DK 7403019	A	19750203	DK 1974-3019	19740606
DK 133556	B	19760608		
PRIORITY APPLN. INFO.:				US 1973-367501 A 19730606

GI For diagram(s), see printed CA Issue.
 AB Aminoimidazoquinolines I (R = substituted amino; R1 = Me, Et, Ph, H; R2 = H, Me, Ph, OH) (81 compds.) were prepared. Thus, 5-nitrobenzimidazole was reduced to the amine, treated with AcCH2CO2Et, cyclized to I (R = OH, R1 = Me, R2 = H), chlorinated, and treated with PhNH2 to give I (R = NHPH, R1 = Me, R2 = H). I were anthelmintic in mice at 25-300 mg/kg day for 3 days, orally.
 IT 16089-44-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, with chloroimidazoquinoline)
 RN 16089-44-4 CAPLUS
 CN Benzenamine, 3-chloro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

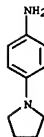


L13 ANSWER 260 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:170926 CAPLUS
DOCUMENT NUMBER: 82:170926
TITLE: 9-Aminoimidazo[4,5-f]quinoline derivatives
INVENTOR(S): Spencer, Claude F.; Snyder, Harry R., Jr.
PATENT ASSIGNEE(S): Morton-Norwich Products, Inc.
SOURCE: Ger. Offen., 20 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2427410	A1	19750109	DE 1974-2427410	19740606
US 3878206	A	19750415	US 1973-367498	19730606
ZA 7400798	A	19750924	ZA 1974-798	19740206
AU 7465452	A1	19750814	AU 1974-65452	19740211
GB 1402243	A	19750806	GB 1974-8717	19740226
SE 7405653	A	19741209	SE 1974-5653	19740426
SE 391926	B	19770307		
CH 598257	A	19780428	CH 1974-6650	19740515
NL 7406572	A	19741210	NL 1974-6572	19740516
JP 50019775	A2	19750301	JP 1974-58879	19740527
JP 57038593	B4	19820816		
FR 2232318	A1	19750103	FR 1974-19424	19740605
BE 816004	A1	19741206	BE 1974-145153	19740606
DK 7403020	A	19750203	DK 1974-3020	19740606
DK 133104	B	19760322		

PRIORITY APPLN. INFO.: US 1973-367498 A 19730606

GI For diagram(s), see printed CA Issue.
AB Aminoimidazoquinolines I (R = substituted anilino, anthrylamino) (21 compds.) were prepared by reducing 5-nitrobenzimidazole, treating the amine with AcCH₂CO₂Et, and thermal cyclization to I (R = OH), which was chlorinated and then treated with the amines. I had min. inhibitory concns. against Hemophilus vaginalis 1.5-50 γ/ml.
IT 2632-65-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with chloroimidazoquinoline)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

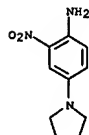


L13 ANSWER 262 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1974:522758 CAPLUS
DOCUMENT NUMBER: 81:122758
TITLE: Substituted nitro-p-phenylenediamine dyes and compositions containing them
INVENTOR(S): Halasz, Alexander
PATENT ASSIGNEE(S): Bristol-Myers Canada Ltd. (1970)
SOURCE: Can., 23 pp.
CODEN: CAXXA4
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 900490		19720516		

PRIORITY APPLN. INFO.: US 1967-608962 19670113

AB Hair dyes [I], R = Me, CH₂CH₂OH, Me₂CH; R₁R₂ = Me, CH₂CH₂OH; (R₁R₂N) = 1-pyrrolidinyl S) were prepared and used to dye hair violet shades from acid, basic, or neutral compns. and are compatible with oxidation hair dyes.
Thus, 3,4-O₂N(H₂N)C₆H₃NHMe in refluxing EtOH was treated with ethylene oxide and after 110 hr hair dye I (R = R₁ = CH₂CH₂OH, R₂ = Me) (10228-08-7) was extracted from the reaction mixture
IT 52373-52-1P
RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of)
RN 52373-52-1 CAPLUS
CN Benzenamine, 2-nitro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

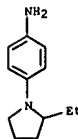


L13 ANSWER 261 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:97930 CAPLUS
DOCUMENT NUMBER: 82:97930
TITLE: Cycloalkylation of amines
INVENTOR(S): Pinke, Paul A.; Massie, Stephen N.
PATENT ASSIGNEE(S): Universal Oil Products Co.
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

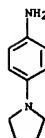
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3853887	A	19741210	US 1973-339818	19730309
US 3977987	A	19760831	US 1975-520579	19751104

PRIORITY APPLN. INFO.: US 1973-339818 A2 19730309

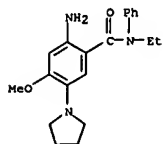
AB Amines were cycloalkylated to N-substituted pyrrolidines with tetrahydrofurans in the presence of a catalyst containing a Group VIII metal on Al₂O₃ or SiO₂-Al₂O₃ or consisting of HCl. Thus (p-H₂N₂C₆H₄)₂CH₂ was treated with THF on 1% Ir-Al₂O₃ to give 9% conversion to 4-amino-4'-(N-pyrrolidinyl)diphenylmethane and 4,4'-bis(N-pyrrolidinyl)diphenylmethane. N-Substituted piperidines were similarly prepared from tetrahydropyrans.
IT 54923-29-4P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 54923-29-4 CAPLUS
CN Benzenamine, 4-(2-ethyl-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



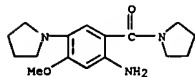
L13 ANSWER 263 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1974:444046 CAPLUS
DOCUMENT NUMBER: 81:44046
TITLE: Superadditive black and white developing agents
AUTHOR(S): Willems, J. F.
CORPORATE SOURCE: Photochem. Res. Dep., Agfa-Gevaert, N. V., Mortsel, Belg.
SOURCE: Photogr. Process., Proc. Symp. (1973), Meeting Date 1971, 71-99. Editor(s): Cox, R. J. Academic: London, Engl.
CODEN: 28JPA8
DOCUMENT TYPE: Conference
LANGUAGE: English
AB The relation between chemical structure and superadditive effectiveness in photog. development was investigated systematically for hydroquinone, dialkylhydroxylamine, p-phenylenediamines, aminophenols, heterocyclic azines, photoreducible dyes, and for auxiliary developing agents that form stable semiquinones with Na dithionite. The existence of a stable radical is a prerequisite for strong superadditivity. The formation of a stable semiquinone demands a chemical structure that allows a high resonance stabilization. In Phenidone, the resonance stabilization (as well as the superadditive effect) disappears, for example, through displacement of the Ph ring by alkyl substitution or by the introduction of strongly electrophilic groups. A neg. charge or noncoplanar structures also reduce the stability of the semiquinone and the superadditivity. A definite redox potential difference is necessary for superadditive effectiveness on photog. development. These results support equally well the regeneration theory and the charge-barrier model as the cause of superadditivity.
IT 2632-65-7
RL: USES (Uses) (photog. development by hydroquinone in presence of, superadditivity in)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 264 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:438922 CAPLUS
 DOCUMENT NUMBER: 81:38922
 TITLE: Aspects of the structure-reactivity relation in aromatic diazo compounds
 AUTHOR(S): Baltazzi, Evan S.; Dalley, E. E.; Datta, P.; Printy, H.; Wagner, W. J.
 CORPORATE SOURCE: Res. Dev. Cent., AM Corp., Warrensville Heights, OH, USA
 SOURCE: Photographic Science and Engineering (1974), 18(2), 123-31
 CODEN: PSEAC; ISSN: 0031-8760
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Diazonium salts I (R1 = H, MeO, BuO, Cl, PhOCH2CH2O, CF3, Me; R2, R3 = Ph, CHMe2, CH2CHMe2, PhCH2, Et, Pr; (R2R3N) = cyclic amino; X = (CH2)4-6, CH2CH2OCH2CH2) and II (R4 = H, MeO, BuO; R5 = H, MeO, BuO) were prepared and had higher overall photodecompn. rates for medium pressure Hg arc lamp exposure than other reported diazonium salts. The influence of substituents on the visible and IR spectra and on thermal stability were determined. The substitution of an electron withdrawing group ortho to the diazo group results in a bathochromic shift of 10-15nm while electron donating groups show a hypsochromic shift. The rate of thermal decomposition of I with cyclic NR2R3 groups increases with the size of the ring.
 IT 25903-52-0 25903-55-3 25903-56-4
 25903-60-0
 RL: RCT (Reactant); RACT (Reactant or reagent) (diazotization of)
 RN 25903-52-0 CAPLUS
 CN Benzamide, 2-amino-N-ethyl-4-methoxy-N-phenyl-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



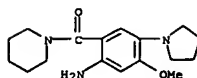
RN 25903-55-3 CAPLUS
 CN Pyrrolidine, 1-[2-amino-4-methoxy-5-(1-pyrrolidinyl)benzoyl]- (9CI) (CA INDEX NAME)



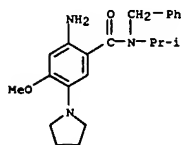
L13 ANSWER 265 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1974:70463 CAPLUS
 DOCUMENT NUMBER: 80:70463
 TITLE: Isothiocyanates. XXXIX. Synthesis, infrared, and ultraviolet spectra of some phenyl isothiocyanates having a heterocyclic substituent
 AUTHOR(S): Martvon, A.; Skacani, I.; Kamalova, I.
 CORPORATE SOURCE: Dep. Org. Chem., Slovak Tech. Univ., Bratislava, Czech.
 SOURCE: Chemické Zvesti (1973), 27(6), 808-10
 CODEN: CHZVAN; ISSN: 0366-6352
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The synthesis, ir, and uv of 4-pyrrolidino-, 2- and 4-piperidino-, 2- and 4-morpholino-, and 4-(4-methyl-1-piperazinyl)phenyl isothiocyanates were discussed.
 IT 2632-65-7
 RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with thiophosgene)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



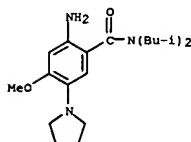
L13 ANSWER 264 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RN 25903-56-4 CAPLUS
 CN Piperidine, 1-[2-amino-4-methoxy-5-(1-pyrrolidinyl)benzoyl]- (9CI) (CA INDEX NAME)



RN 25903-60-0 CAPLUS
 CN Benzamide, 2-amino-4-methoxy-N-(1-methylethyl)-N-(phenylmethyl)-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



IT 52029-21-7
 RL: USES (Uses) (diazotization of)
 RN 52029-21-7 CAPLUS
 CN Benzamide, 2-amino-4-methoxy-N,N-bis(2-methylpropyl)-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



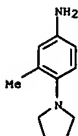
L13 ANSWER 266 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1973:99035 CAPLUS
 DOCUMENT NUMBER: 78:99035
 TITLE: N-(p-Amino-o-methylphenyl)pyrrolidine monoazo dye
 INVENTOR(S): Plue, Arnold F.; Katz, Leon
 PATENT ASSIGNEE(S): GAF Corp.
 SOURCE: U.S., 3 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3701769	A	19721031	US 1970-33920	19700501

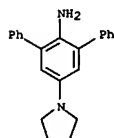
PRIORITY APPLN. INFO.: US 1970-33920 A 19700501

AB Diazotization of p-HO3SC6H4NH2 and coupling with N-(o-tolyl)pyrrolidine gave azo dye I [38233-66-8], which dyed nylon 66 an orange shade. Treatment of I with Na2S2O4 gave N-(p-amino-o-methylphenyl)pyrrolidine [16089-43-3] which was diazotized and subsequently complexed with ZnCl2 to give diazonium compound II [38233-81-7], a sensitizer for diazo copying materials.

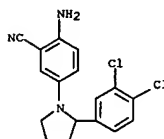
IT 16089-43-3P
 RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of)
 RN 16089-43-3 CAPLUS
 CN Benzenamine, 3-methyl-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 267 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1972:526353 CAPLUS
 DOCUMENT NUMBER: 77:126353
 TITLE: Reactions of 4-methoxypyrylium salts with secondary amines
 AUTHOR(S): Van Allan, J. A.; Reynolds, G. A.; Petropoulos, C. C.
 CORPORATE SOURCE: Res. Lab., Eastman Kodak Co., Rochester, NY, USA
 SOURCE: Journal of Heterocyclic Chemistry (1972), 9(4), 783-7
 CODEN: JHTCAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB 4-Aminopyrylium derivs. (I, m = 4, 5; R = Me, Ph) were prepared from secondary amines and 4-methoxypyrylium perchlorate derivs. (II, R = Me, Ph). Excess amine or elevated temperature resulted in III (m = 4, 5; n = 4, 5).
 IT The reactions of the aminopyrylium salts with OH-, NH3, RNH2, N2H4, NCCH2CONHR, NCCH2CO2Et, CH2(CN)2, MeNO2, Na2S and RMgX are discussed.
 37709-00-5P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 37709-00-5 CAPLUS
 CN [1,1':3',1''-Terphenyl]-2'-amine, 5'-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

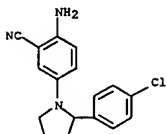


L13 ANSWER 268 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1972:522113 CAPLUS
 DOCUMENT NUMBER: 77:122113
 TITLE: Antimalarial drugs. 25. Folate antagonists. 3. 2,4-Diamino-6-(heterocyclic)quinazolines, a novel class of antimetabolites with potent antimalarial and antibacterial activity
 AUTHOR(S): Elslager, Edward F.; Clarke, J.; Werbel, Leslie M.; Worth, Donald F.; Davoll, John
 CORPORATE SOURCE: Res. Dev. Div., Parke Davis and Co., Ann Arbor, MI, USA
 SOURCE: Journal of Medicinal Chemistry (1972), 15(8), 827-36
 CODEN: JMCMAR; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 77:122113
 AB 2,4-Diamino-6-(2-benzylpiperidino)quinazoline (I) [36504-79-7] and 2,4-diamino-6-(2-phenyl-1-pyrrolidinyl)quinazoline (II) [36504-80-0] were the most promising of a series of heterocyclic-substituted quinazolines synthesized. I was curative against Plasmodium berghei in mice at 20 mg/kg s.c. and was thus superior to cycloquanil. II produced a 90% suppression of parasitemia in the same system at 0.35 mg/kg/day in the diet, and was thus 210 times as potent as quinine-HCl. Several compds. were active against P. gallinaceum in chicks. Many of the heterocyclic quinazolines were highly active against a broad spectrum of pathogenic and nonpathogenic bacteria in vitro. 2,4-Diamino-6-(2,5-dimethylpyrrol-1-yl)quinazoline (III) [36504-81-1] exhibited good activity in vivo against Streptococcus pyogenes in mice following single oral or s.c. doses of 50-500 mg/kg, and was synergistic with sulfamethoxypyridazine. Several of the compds. were active against Trypanosoma cruzi in chick embryo cell culture, but none was active against this organism in vivo when administered to mice in the diet. To synthesize I, 5-chloro-2-nitrobenzonitrile was condensed with 2-benzylpiperidine, the nitro group was reduced with SnCl2, and the product was condensed with chloroformamide-HCl.
 IT 38944-01-3P 38944-02-4P 38944-03-5P
 38944-04-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 38944-01-3 CAPLUS
 CN Benzonitrile, 2-amino-5-[2-(3,4-dichlorophenyl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)

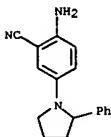


RN 38944-02-4 CAPLUS
 CN Benzonitrile, 2-amino-5-[2-(4-chlorophenyl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 268 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

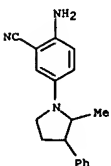


RN 38944-03-5 CAPLUS
 CN Benzonitrile, 2-amino-5-(2-phenyl-1-pyrrolidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

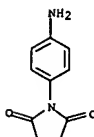


● HCl

RN 38944-04-6 CAPLUS
 CN Benzonitrile, 2-amino-5-(2-methyl-3-phenyl-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 269 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1972:501072 CAPLUS
 DOCUMENT NUMBER: 77:101072
 TITLE: Addition of hydrogen at the double bond during the Bechamp reduction of the nitro group
 AUTHOR(S): Medvedeva, V. S.; Belotsvetov, A. V.
 CORPORATE SOURCE: Mosk. Gos. Pedagog. Inst. im. Lenina, Moscow, USSR
 SOURCE: Zhurnal Organicheskoi Khimii (1972), 8(6), 1335
 CODEN: ZORKAE; ISSN: 0514-7492
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB Bechamp reduction of N-(m- and p-nitrophenyl)maleimide using Fe filings and HOAc at 90-5° afforded N-(m- and p-aminophenyl)succinimide, resp.
 IT 34373-09-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 34373-09-6 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

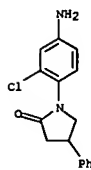


L13 ANSWER 270 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1972:140503 CAPLUS
 DOCUMENT NUMBER: 76:140503
 TITLE: Antiepileptic 1-(sulfamoylphenyl)-2-pyrrolidinones
 INVENTOR(S): Pfirrmann, Rolf W.; Hofstetter, Emil
 PATENT ASSIGNEE(S): Gelellich, Ed., Soehne A.-G. fuer Chemische Industrie
 SOURCE: Ger. Offen., 35 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2139072	A	19720210	DE 1971-2139072	19710804
DE 2139072	B2	19800214		
DE 2139072	C3	19801009		
BE 770938	A1	19720204	BE 1971-106740	19710804
NL 7110775	A	19720208	NL 1971-10775	19710804
FR 2101241	A1	19720331	FR 1971-28543	19710804
FR 2101241	A5	19720331		
ZA 7105205	A	19720803	ZA 1971-5205	19710804
HU 162250	F	19730129	HU 1971-GE894	19710804
AT 305997	B	19730326	AT 1971-6829	19710804
AU 7131984	A1	19730503	AU 1971-31984	19710804
ES 393883	A1	19731101	ES 1971-393883	19710804
US 3813387	A	19740528	US 1971-169062	19710804
CH 571489	A	19760115	CH 1971-11481	19710804
JP 51018948	B4	19760614	JP 1971-58396	19710804
CA 996565	A1	19760907	CA 1971-119749	19710804
PL 88911	F	19761030	PL 1971-149829	19710804
SE 390730	B	19770117	SE 1971-10004	19710804
DK 135503	B	19770509	DK 1971-3801	19710804
SU 567401	D	19770730	SU 1971-1691585	19710804
NO 137153	B	19771003	NO 1971-2923	19710804
FI 54104	C	19781010	FI 1971-2190	19710804
CH 586119	A	19770331	CH 1972-11293	19720728
US 3926707	A	19751216	US 1974-522864	19741111
PRIORITY APPLN. INFO.:			GB 1970-37842	A 19700805

GI For diagram(s), see printed CA Issue.
 AB The 1-(4-sulfamoylphenyl)pyrrolidin-2-ones I (R = H, R1-R5 = H, Me; R =
 H,
 R1 = R2 = R5 = H, R3 = Me, R4 = Et, Ph; R = H, 2-Cl, 2-F, 2-Me 3-Cl, R1
 =
 R2 = R4 = R5 = H, R3 = Ph; R = H, R1 or R3 = cyclohexyl, the other R1-R5
 =
 H; R = 2-Cl, R1 or R5 = Ph, the other R1-R5 = H) were prepared. They are
 active against both grand mal and petit mal epilepsy. I (R-R5 = H) (3.5
 g) was prepared by treating 3 g 1-phenyl-2-pyrrolidinone with ClSO₃H.
 IT 36090-35-49
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 36090-35-4 CAPLUS

L13 ANSWER 270 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN 2-Pyrrolidinone, 1-(4-amino-2-chlorophenyl)-4-phenyl- (9CI) (CA INDEX
 NAME)

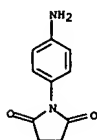
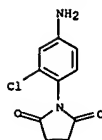


L13 ANSWER 271 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1972:101206 CAPLUS
 DOCUMENT NUMBER: 76:101206
 TITLE: Disazo dyes containing a succinimide of pyrrolidinone
 INVENTOR(S): Weaver, Max A.; Straley, James M.
 PATENT ASSIGNEE(S): Eastman Kodak Co.
 SOURCE: U.S., 7 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3624067	A	19711130	US 1970-5936	19700126
PRIORITY APPLN. INFO.:			US 1970-5936	A 19700126

AB Disperse dyes of general structure I (X = CO or CH₂; R and R3 = H, Me, or
 OMe; R1 and R2 = H or Me) were prepared. I were useful for dyeing
 polyester
 fibers orange to yellow shades of improved fastness to light and
 sublimation compared with disazo dyes in which the same heterocyclic ring
 was attached to the N atom of an aniline coupling component through an
 alkyl group. Thus, succinic anhydride reacted with p-O₂NC₆H₄NH₂ to give
 N-(4-nitrophenyl)succinimide, which was reduced to N-(4-
 aminophenyl)succinimide (34373-09-6) and then diazotized and
 coupled with m-MeC₆H₄NH₂ to form N-[4-(4-amino-o-
 tolylazo)phenyl)succinimide (II) (34373-10-9). Ten other amine and azo
 intermediates were prepared. Diazotization of II and coupling with
 m-MeC₆H₄OH gave disazo dye I (X = O, R = R1 = H, R2 = R3 = Me)
 (34373-11-0), which dyed polyester reddish yellow shades. Similarly
 prepared were 6 other I.
 IT 34373-09-6P 35581-02-3P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of)
 RN 34373-09-6 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 271 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



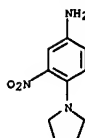
RN 35581-02-3 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-amino-2-chlorophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 272 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1972:4891 CAPLUS
DOCUMENT NUMBER: 76:4891
TITLE: 2-Nitro-p-phenylenediamines
PATENT ASSIGNEE(S): Clairol Inc.
SOURCE: Brit., 11 pp.
CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1206491	A	19700923	GB 1968-1206491	19680703
US 3632582	A	19720104	US 1968-719682	19680408
FR 1581135	A	19690912	FR 1968-1581135	19680726
IT 996005	A	19751210	IT 1968-38724	19680726
BE 718734	A	19690129	BE 1968-718734	19680729
ES 356614	A1	19700201	ES 1968-356614	19680729
CH 512426	A	19710915	CH 1968-512426	19680729
NL 6810809	A	19690506	NL 1968-10809	19680730
SE 360068	B	19730917	SE 1968-10494	19680802
SE 385703	B	19760719	SE 1972-6335	19680802
JP 51044931	B4	19761201	JP 1968-54347	19680802
US 3758499	A	19730911	US 1970-92868	19701125
US 30798	E	19811117	US 1977-806976	19770616
PRIORITY APPLN. INFO.:			US 1967-683758	A 19671102
			US 1968-719682	A 19680408
			US 1967-683751	A 19671102
			US 1973-348403	A1 19730405

AB Treatment of 4-fluoro-3-nitroaniline or 4-fluoro-3-nitro-N,N-bis(2-hydroxyethyl)aniline with NH₃, ethanolamine, MeNH₂, morpholine, or another amine gives nitro-p-phenylenediamine [5307-14-2], N1-(2-hydroxyethyl)-2-nitro-p-phenylenediamine [2871-01-4], N1-methyl-N4,N4-bis(2-hydroxyethyl)-2-nitro-p-phenylenediamine [2784-94-3], and 21 similar nitrophenylenediamines, especially useful as hair dyes, in high yields and purities under mild conditions.
IT 5367-57-7P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 5367-57-7 CAPLUS
CN Benzenamine, 3-nitro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 272 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

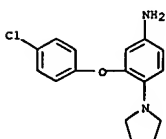
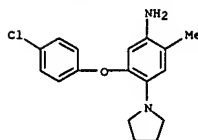


L13 ANSWER 273 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1971:478158 CAPLUS
DOCUMENT NUMBER: 75:78158
TITLE: Diazonium salts for use in diazotype photographic material
INVENTOR(S): Whitear, Brian R. D.
PATENT ASSIGNEE(S): Ilford Ltd.
SOURCE: Brit., 40 pp.
CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1237531		19610730	GB	19670501

GI For diagram(s), see printed CA Issue.
AB Pyrrolidino-, morpholino-, and piperidinobenzenediazonium salts (I, NRR1 = heterocyclic ring, R2 = H, Me, R3 = H, 4-OC6H4Cl, X = HSO₄, Cl), useful for 2-component diazo photog. materials and having a low coupling activity, were prepared. Thus, a mixture of 135 g p-ClC₆H₄OH, 67 g KOH, and 200 ml diethyl Carbitol (II) was distilled to a distillate temperature 170°, the solution cooled to 100°, and 200 g 3,4-dichloronitrobenzene in 100 ml II added and heated 10 min at 140° to give 2,4'-dichloro-4-nitrodiphenyl ether which was reduced with HCl-Fe, acetylated, nitrated, deacetylated, deaminated, condensed with pyrrolidine, reduced with HCl-Fe, diazotized, and H₂SO₄ added to give I (NRR1 = pyrrolidino, R2 = H, R3 = 4-OC₆H₄Cl, X = HSO₄). The product was coated onto a coupler-coated paper, exposed, and developed with NH₃ to give a maximum 584 nm and absorption range 694-480 nm. Five other I were prepared
IT 33215-01-9P 33215-09-7P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)
RN 33215-01-9 CAPLUS
CN Pyrrolidine, 1-[4-amino-2-(p-chlorophenoxy)phenyl]- (8CI) (CA INDEX NAME)

L13 ANSWER 273 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



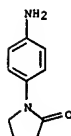
RN 33215-09-7 CAPLUS
CN Pyrrolidine, 1-[4-amino-6-(p-chlorophenoxy)-m-tolyl]- (8CI) (CA INDEX NAME)

L13 ANSWER 274 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1971:113208 CAPLUS
 DOCUMENT NUMBER: 74:113208
 TITLE: Disperse azo dyes
 INVENTOR(S): Stanley, Lester N.; Farris, Russell E., Jr.
 PATENT ASSIGNEE(S): GAF Corp.
 SOURCE: Ger. Offen., 47 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2030783	A	19710107	DE 1970-2030783	19700623
US 3666746	A	19720530	US 1969-836602	19690625
GB 1317279	A	19730516	GB 1970-29914	19700619
GB 1317280	A	19730516	GB 1972-24428	19700619
FR 2047923	A5	19710319	FR 1970-23091	19700623
FR 2047923	B1	19751031		
CH 709471	A4	19741213	CH 1970-9471	19700623
CH 562909	B	19750613		
BE 752455	A	19701201	BE 1970-752455	19700624
FR 2150669	A1	19730413	FR 1972-15332	19720428
			US 1969-836602	A 19690625

PRIORITY APPLN. INFO.:

GI For diagram(s), see printed CA Issue.
 AB The title compds. (I) are prepared and used for dyeing polyester, polyacrylonitrile, and other hydrophobic fibers. Thus, 1-(p-aminophenyl)-2-pyrrolidinone was diazotized and coupled with 4-MeC6H4OH to give greenish yellow I [R = 5,2-Me(HO)C6H3]. Similarly, 23 other I were prepared
 IT 13691-22-0P
 RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of)
 RN 13691-22-0 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

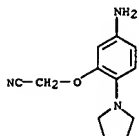


L13 ANSWER 275 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1970:436598 CAPLUS
 DOCUMENT NUMBER: 73:36598
 TITLE: Diazonium salts for diazo type photocopy materials
 INVENTOR(S): Mizianty, Michael F.
 PATENT ASSIGNEE(S): GAF Corp.
 SOURCE: Ger. Offen., 24 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1930344	A	19700102	DE 1969-1930344	19690614
US 3597413	A	19710803	US 1968-737854	19680618
NL 6909231	A	19691222	NL 1969-9231	19690617
FR 2011143	A5	19700227	FR 1969-20083	19690617
FR 1263379	A	19720209	GB 1969-1263379	19690617
US 3719491	A	19730306	US 1971-123437	19710311
			US 1968-737854	A 19680618

PRIORITY APPLN. INFO.:

GI For diagram(s), see printed CA Issue.
 AB Diazonium salts (I) useful for diazotype photocopy materials are prepared 5-Nitro-2-pyrrolidinophenol was condensed with ClCH2CN, reduced (Fe/HCl), diazotized, and treated with HBF4 to give I (R = H, Y = direct link, X = BF4). A photocopy material prepared from I, ZnCl2, saponin, citric acid, 6,7,2-(HO)2ClOH5SO3Na, thiourea, and Me2CHOH in water gave, after exposure and development in NH3, a heat fast blue image. Similarly was prepared I (R = BuO, Y = O, X = ZnCl3).
 IT 20336-84-7P
 RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of)
 RN 20336-84-7 CAPLUS
 CN Acetonitrile, [5-amino-2-(1-pyrrolidinyl)phenoxy]- (8CI) (CA INDEX NAME)

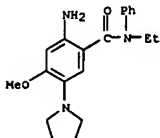


L13 ANSWER 276 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1970:66660 CAPLUS
 DOCUMENT NUMBER: 72:66660
 TITLE: Substituted-o-aminobenzoic acids
 INVENTOR(S): Addressograph-Multigraph Corp
 SOURCE: Brit., 10 pp.
 CODEN: BRXXAA
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1161104		19690813	GB	
US 3463639		19690000	US	
			US	19651215

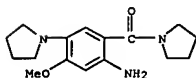
PRIORITY APPLN. INFO.:

GI For diagram(s), see printed CA Issue.
 AB 1, e.g. N,N-dibutyl-2-amino-4-methoxy-5-morpholinobenzamide (II), are prepared from acids III. Thus, 100 g 5,4,2-Cl(MeO) (O2N)C6H2CO2H is heated with 200 ml 5 OC12 and treated with 125 g Bu2NH to give 5,4,2-Cl(MeO)-(O2N)C6H2CONBu2 (IV), m. 72-5°. A mixture of 100 g IV and 1 l. morpholine is heated 15 hr to give N,N-dibutyl-2-nitro-4-methoxy-5-morpholinobenzamide (V). m. 64-8°. V (50 g) is hydrogenated over Raney Ni to give II, m. 54-6°. Similarly prepared are 19 addnl. I. I are converted to diazonium salts, which are used in diazo type compns.
 IT 25903-52-0P 25903-55-3P 25903-56-4P 25903-60-0P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 25903-52-0 CAPLUS
 CN Benzamide, 2-amino-N-ethyl-4-methoxy-N-phenyl-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

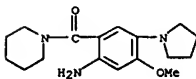


RN 25903-55-3 CAPLUS
 CN Pyrrolidine, 1-[2-amino-4-methoxy-5-(1-pyrrolidinyl)benzoyl]- (9CI) (CA INDEX NAME)

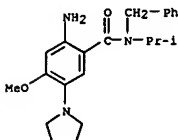
L13 ANSWER 276 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 25903-56-4 CAPLUS
 CN Piperidine, 1-[2-amino-4-methoxy-5-(1-pyrrolidinyl)benzoyl]- (9CI) (CA INDEX NAME)



RN 25903-60-0 CAPLUS
 CN Benzamide, 2-amino-4-methoxy-N-(1-methylethyl)-N-(phenylmethyl)-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

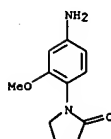


L13 ANSWER 277 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1969:404514 CAPLUS
 DOCUMENT NUMBER: 71:4514
 TITLE: One-component diazotype
 INVENTOR(S): Sues, Oskar; Glos, Martin
 PATENT ASSIGNEE(S): Kalle A.-G.
 SOURCE: S. African, 12 pp.
 CODEN: SFXOAB
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 6706733		19680409		
DE 1572093			DE	
FR 1543870			FR	
GB 1177545			GB	
PRIORITY APPLN. INFO.:			DE	19661110

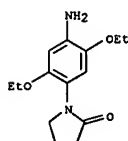
GI For diagram(s), see printed CA Issue.
 AB The title compns. contain diazonium salts (I, X = N₂+Y-) (II) prepared from substituted N-pyrrolidono-p-phenylenediamines (I, X = NH₂) (III). They are readily developed by neutral or weakly acid solns. of s-C₆H₃(OH)₃ to give brown images. Thus, a mixture of 53.5 g. 2,5-(PrO)2-C₆H₃NH₂, 30 ml. γ-butyrolactone, and 30 g. ZnCl₂ was stirred for 8 hrs. at 165°, the oily residue (110 g.) dissolved in 500 ml. AcOH, treated with 33 ml. HNO₃ (d. 1.52) dropwise below 40°, heated briefly to 60°, and poured into 1.5 l. ice water to give 35.7 g. pale yellow I (R₁ = R₂ = PrO, R₃ = H, X = NO₂) (IV), m. 81-3°. Similarly other I (X = NO₂) were prepared (R₁-R₃ and m.p. given): MeO, Cl, H, 156-8°; MeO, MeO, H, 142-5°; EtO, EtO, H, 115-16°; BuO, BuO, H, 81-2°; MeO, Me, H, 146-7°; MeO, H, H, 114-15°; EtO, EtO, Me, 91-2°. The intermediate I (R₁ = MeO, R₂ = Cl, R₃ = X = H) m. 108-9°. A solution of 35.7 g. IV in 200 ml. MeOH was hydrogenated under pressure (Raney Ni), MeOH evaporated, and 10 ml. 32% HCl added to precipitate 26.8 g. III.HCl (R₁ = R₂ = PrO, R₃ = H) (V), charring above 215°. Similarly other III were prepared (R₁ - R₃, m.p., and m.p. of III.HCl given): MeO, Cl, H, -, 200° (decompose); MeO, MeO, H, 121-2°, -, EtO, EtO, H, 121-2°, 230°; BuO, BuO, H, -, 210° (charring); MeO, Me, H, 137-40°, -, MeO, H, H, -, -, EtO, EtO, Me, -, 220° (decomposition). V (13.6 g.) was diazotized and precipitated by addition of NaCl and CdCl₂ to give 15 g. yellow crystalline II (R₁ = R₂ = PrO, R₃ = H, Y = CdCl₃), m. 129-30° (decompose). Similarly other II were prepared (R₁, R₂, R₃, Y, and decomposition point given): MeO, Cl, H, BF₄, 122°; MeO, MeO, H, SnCl₅, 149°; EtO, EtO, H, Cl, 124°; EtO, EtO, H, PF₆, 145°; BuO, BuO, H, SnCl₅, 130°; MeO, Me, H, ZnCl₃, 102°; MeO, H, H, PF₆, 102°; EtO, EtO, Me, PF₆, 139-40°.
 IT 23196-08-9P 23196-11-4P 23196-13-6P
 23196-16-9P 23196-18-1P 23192-27-5P
 23292-29-7P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of)
 RN 23196-08-9 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-2-methoxyphenyl)-, monohydrochloride (8CI)

L13 ANSWER 277 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (CA INDEX NAME)



● HCl

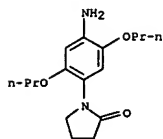
RN 23196-11-4 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-2,5-diethoxyphenyl)-, monohydrochloride (8CI)
 (CA INDEX NAME)



● HCl

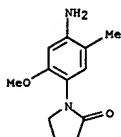
RN 23196-13-6 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-2,5-dipropoxyphenyl)-, monohydrochloride (8CI)
 (CA INDEX NAME)

L13 ANSWER 277 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

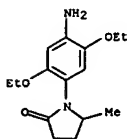


● HCl

RN 23196-16-9 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-6-methoxy-m-tolyl)- (8CI) (CA INDEX NAME)



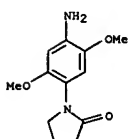
RN 23196-18-1 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-2,5-diethoxyphenyl)-5-methyl-, monohydrochloride (8CI) (CA INDEX NAME)



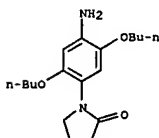
● HCl

RN 23292-27-5 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-2,5-dimethoxyphenyl)- (8CI) (CA INDEX NAME)

L13 ANSWER 277 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 23292-29-7 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-2,5-dibutoxyphenyl)-, monohydrochloride (8CI)
 (CA INDEX NAME)

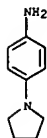


● HCl

L13 ANSWER 278 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1967:464364 CAPLUS
 DOCUMENT NUMBER: 67:64364
 TITLE: p-Phenylenediamine derivatives and their in vitro tuberculostatic activity
 AUTHOR(S): Belavita, Vito; Martini, Alfio
 CORPORATE SOURCE: Univ. Perugia, Perugia, Italy
 SOURCE: Gazzetta Chimica Italiana (1967), 97(2), 135-47
 CODEN: GCITA9; ISSN: 0016-5603
 DOCUMENT TYPE: Journal
 LANGUAGE: Italian
 GI For diagram(s), see printed CA Issue.
 AB Amides of the general formula I, compds. of the general formula p-R-C6H4NH2 (II), azomethines of the general formula III, and compds. of the general formula IV are prepared and tested for tuberculostatic activity.

Isonicotinoyl chloride is treated with anilines to give the following I (R and m.p. given): NO2, 260° (EtOH); NH2, 232° (EtOH); morpholino, 204° (EtOH); 4-methylpiperazino, 201° (EtOH); 4-(2-hydroxyethyl)piperazino, 209° (EtOH); pyrrolidino, 205° (EtOH); piperidino, 178° (EtOH); iso-PrNH, 110° (ligroine); Et2N, 178° (dilute EtOH); HO2CCH2CH2CONH, 256° (water); cyclohexylamino, 172° (EtOH); iso-BuNH, 161° (ligroine). Also prepared are the following II (R, b.p./mm., and m.p. given): Et2N, 130°/7, -; iso-PrNH, 178°/10, -; iso-BuNH, 190°/10, -; pyrrolidino, 185°/10, -; morpholino, -, 156° (dilute EtOH); piperidino, 192°/10, -; cyclohexylamino, -, 55° (EtOH); 4-methylpiperazino, -, 67° (EtOH); 4-(2-hydroxyethyl)piperazino, -, 75° (EtOH). Amines are heated with aldehydes to give the following III (R = isonicotinoyl, R1 = H) (R2 and m.p. given): o-HOC6H4, 226° (EtOH); p-HOC6H4, 286° (Me(CHOH)2H); p-MeOC6H4, 193° (EtOH); p-Me2NC6H4, 225° (EtOH); p-iso-PrC6H4, 200° (EtOH); 2-furyl, 218° (EtOH); 5-nitrofuryl, 231° (EtOH); 2-thienyl, 204° (EtOH); PhCH=CH, 225° (EtOH). The following III (RR1N = morpholino) (R2 and m.p. given): o-HOC6H4, 160° (EtOH); p-HOC6H4, 235° (EtOH); p-MeOC6H4, 193° (EtOH); p-iso-PrC6H4, 158° (EtOH); p-Me2NC6H4, 266° (EtOH); 2-thienyl, 193° (EtOH); 2-furyl, 171° (EtOH); 5-nitrofuryl, 152° (EtOH). The following III (RR1N = piperidino) (R2 and m.p. given): o-HOC6H4, 112° (EtOH); p-HOC6H4, 178° (EtOH); p-MeOC6H4, 128° (EtOH); p-iso-PrC6H4, 103° (EtOH); 2-thienyl, 127° (EtOH); 2-furyl, 86° (ligroine); 5-nitrofuryl, 142° (EtOH). The following III (R = H, R1 = iso-Pr) (R2 and m.p. given): o-HOC6H4, 104° (EtOH); p-HOC6H4, 200° (EtOH); p-MeOC6H4, 103° (EtOH); Me2NC6H4, 110° (C6H6); 2-thienyl, 153° (ligroine); 5-nitrofuryl, 118° (EtOH). The following III (R = R1 = Et) (R2 and m.p. given): o-HOC6H4, 103° (EtOH); p-HOC6H4, 102° (EtOH); p-MeOC6H4, 92° (MeOH); p-iso-PrC6H4, 90° (ligroine). The following III (R = H, R1 = iso-Bu) (R2 and m.p. given): o-HOC6H4, 102° (EtOH); p-HOC6H4, 192° (EtOH); p-MeOC6H4, 105° (dilute EtOH); p-iso-PrC6H4, 83° (EtOH); p-Me2NC6H4, 133° (EtOH); p-ClC6H4, 112° (EtOH); 2-thienyl, 92° (dilute EtOH); 5-nitrofuryl, 78° (EtOH). The following III (R = H, R1 = cyclohexyl) (R2 and m.p. given): o-HOC6H4, 221° (EtOH); p-HOC6H4, 207° (EtOH); p-MeOC6H4, 110° (ligroine); p-iso-PrC6H4, 80° (EtOH); 2-thienyl, 106° (EtOH); 5-nitrofuryl, 132° (EtOH). A mixture of III (R = H, R1 = iso-nicotinoyl, R2 = p-HOC6H4) and HSCH2CO2H is heated to give 2-(p-hydroxyphenyl)-3-(p-isonicotinamidophenyl)-4-thiazolidone, m. 307° (HOAc). Similarly prepared are the following IV (R1 = isonicotinamido) (R and m.p. given):

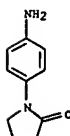
L13 ANSWER 278 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 p-iso-PrC6H4, 285° (EtOH); p-MeOC6H4, 278° (HOAc); 2-thienyl, 281° (HOAc); p-Me2NC6H4, 275° (HOAc). The following IV (R1 = morpholino) (R and m.p. given): p-HOC6H4, 263° (EtOH); p-MeOC6H4, 121° (EtOH); iso-PrC6H4, 158° (EtOH); Me2NC6H4, 261° (EtOH); 2-thienyl, 203° (EtOH); 2-furyl, 201° (EtOH). The following IV (R1 = piperidino) (R and m.p. given): 2-thienyl, 200° (EtOH); p-iso-PrC6H4, 128° (EtOH); p-MeOC6H4, 165° (EtOH); p-HOC6H4, 262° (EtOH).
 IT 2632-65-7#
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 279 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1967:422898 CAPLUS
 DOCUMENT NUMBER: 67:22898
 TITLE: Methine dyes for acrylic fibers
 INVENTOR(S): Fisher, John Gatewood; Straley, James M.
 PATENT ASSIGNEE(S): Eastman Kodak Co.
 SOURCE: U.S., 3 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3311619		19670328	US	19640505

GI For diagram(s), see printed CA Issue.
 AB Compds. of the general formula I dye acrylic fibers fast, brilliant yellow shades. Thus, to a solution of 0.95 g. N-(4-aminophenyl)-2-methyl-5-pyrrolidone in 15 ml. 20% H2SO4 was added a solution of 1 g. of 1,3,3-trimethylindoline-2-acetaldehyde in 5 ml. 20% H2SO4 and the mixture stirred 4 hrs. to yield I (R = R1 = R2 = H, X = HSO4-, and A = CO). The methine dye thus produced dyes acrylic fibers in bright yellow shades with excellent fastness. The following I (X = HSO4-) are similarly prepared (R, R1, R2, and A given): H, H, H, CH2; H, H, H, CO; H, H, Me, CH2; H, H, Me, CHMe; H, Me, H, CH2; Cl, H, Me, CH2; CO2Me, H, H, CO; CO2Et, Me, H, CH2; Cl, H, H, CO. Intermediates were prepared Thus, 138 g. p-nitroaniline, 91 g. butyrolactone, and 1 ml. concentrated H2SO4 was heated and stirred 2.5 hrs. at 175-80°, 3 g. sulfanilic acid added, and the mixture heated and stirred 3 hrs. to give 175 g. N-(4-nitrophenyl)-5-pyrrolidone, m. 121-4°, which was reduced with Raney Ni to N-(4-aminophenyl)-5-pyrrolidone, m. 122-3°. N-Phenyl-2-methyl-5-pyrrolidone (100 g.) in 190 ml. concentrated H2SO4 was treated dropwise with 94 ml. concentrated HNO3 at 10-20° to give 120 g. N-(4-nitrophenyl)-2-methyl-5-pyrrolidone, m. 105-10°.
 IT 13691-22-0#
 RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of)
 RN 13691-22-0 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



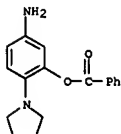
L13 ANSWER 279 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

ACCESSION NUMBER: 1967:90151 CAPLUS
 DOCUMENT NUMBER: 66:90151
 TITLE: New amines and their diazonium compounds for photographic diazo materials
 PATENT ASSIGNEE(S): Hall Harding Ltd.
 SOURCE: Neth. Appl., 11 pp.
 CODEN: NAXXAN
 DOCUMENT TYPE: Patent
 LANGUAGE: Dutch
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

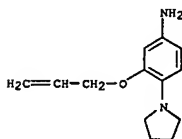
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6606588		19661115	NL	
DE 1547944			DE	
FR 1479888			FR	
GB 1080576			GB	
US 3639421		19720000	US	
US 3758307		19730000	US	
			GB	19660131

PRIORITY APPLN. INFO.:

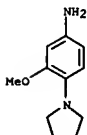
GI For diagram(s), see printed CA Issue.
 AB Diazo compds. of the general formula I, where Y is a halogen, alkyl, alkoxy, allyloxy, cyano, aryl, aralkyl, alkoxyaryl, alkylthio, arylthio, aldehyde, halogen-substituted alkyl, sulfonic acid, carboxylic acid, CO₂R, or OC(O)R (R = alkyl, aryl) group, and X is an anion such as chloride or sulfate, are used as complex salts for the diazo materials. Pyrrolidine and III are condensed and the obtained IV is reduced to give amine II. Then II is diazotized and precipitated with ZnCl₂ to give I-ZnCl₂ complex salt.
 The preferred II are 4-pyrrolidino-3-methoxyaniline, 4-pyrrolidino-3-methylaniline, 4-pyrrolidino-3-chloroaniline, 4-pyrrolidinoaniline-3-sulfonic acid, 4-pyrrolidinoaniline-3-carboxylic acid, 4-pyrrolidino-3-butoxyaniline, 2-pyrrolidino-5-aminophenyl benzyl ether, 4-pyrrolidino-3-(trifluoroethyl)aniline, 2-pyrrolidino-5-aminophenyl acetate, 2-pyrrolidino-5-aminophenyl benzoate, and 2-pyrrolidino-5-aminophenyl allyl ether. E.g., white paper base was coated with a sensitizing liquid containing H₂O 100, tartaric acid 3, ZnCl₂ 2, thiourea 4, 2,3-dihydroxynaphthalene-6-sulfonic acid (Na salt) 3.5, 4-pyrrolidino-3-methoxybenzenediazonium chloride (ZnCl₂ complex salt) 1, and diethylene glycol 5 g. The coated paper was overlaid with a pattern print, exposed to a Hg vapor lamp, and developed with gaseous NH₃ to give a dark blue image on the white paper base.
 IT 16085-44-2P 16085-45-3P 16085-46-4P 16085-47-5P 16085-48-6P 16089-42-2P 16089-43-3P 16089-44-4P 16089-45-5P 16089-46-6P 16089-47-7P
 RL: PREP (Preparation)
 (manufacture of, and diazotization thereafter for diazo-process emulsion)
 RN 16085-44-2 CAPLUS
 CN Pyrrolidine, 1-[4-amino-2-(benzyloxy)phenyl]- (8CI) (CA INDEX NAME)



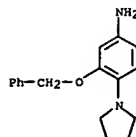
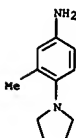
RN 16085-48-6 CAPLUS
 CN Pyrrolidine, 1-[2-(allyloxy)-4-aminophenyl]- (8CI) (CA INDEX NAME)



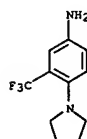
RN 16089-42-2 CAPLUS
 CN Benzenamine, 3-methoxy-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



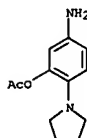
RN 16089-43-3 CAPLUS
 CN Benzenamine, 3-methyl-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 16085-45-3 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)

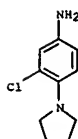


RN 16085-46-4 CAPLUS
 CN Phenol, 5-amino-2-(1-pyrrolidinyl)-, acetate (ester) (8CI) (CA INDEX NAME)

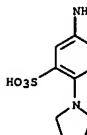


RN 16085-47-5 CAPLUS
 CN Phenol, 5-amino-2-(1-pyrrolidinyl)-, benzoate (ester) (8CI) (CA INDEX NAME)

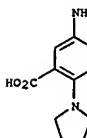
RN 16089-44-4 CAPLUS
 CN Benzenamine, 3-chloro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



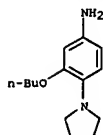
RN 16089-45-5 CAPLUS
 CN Benzenesulfonic acid, 5-amino-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 16089-46-6 CAPLUS
 CN Benzoic acid, 5-amino-2-(1-pyrrolidinyl)- (8CI, 9CI) (CA INDEX NAME)



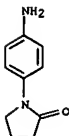
RN 16089-47-7 CAPLUS
 CN Pyrrolidine, 1-(4-amino-2-butoxyphenyl)- (8CI) (CA INDEX NAME)



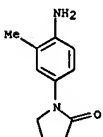
L13 ANSWER 281 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1967:56571 CAPLUS
 DOCUMENT NUMBER: 66:56571
 TITLE: Anthraquinone dyes
 INVENTOR(S): Straley, James M.; Wallace, David J.
 PATENT ASSIGNEE(S): Eastman Kodak Co.
 SOURCE: U.S., 4 pp. Addn. to US 3201415
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3279880		19661018	US	19650712

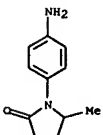
GI For diagram(s), see printed CA Issue.
 AB The title compds. (I), prepared by condensing a 1-(4-aminophenyl)-2-pyrrolidinone with a mixture of quinizarin (II) and leucoquinizarin (III), gave blue shades on polyester materials. Thus, a mixture of 10.5 g. II, 6.5 g. III, 4 g. H₃BO₃, 15 g. 1-(p-aminophenyl)-2-pyrrolidinone (IV), and 200 cc. iso-PROH was refluxed for 20 hrs., cooled, treated with 100 cc. H₂O, stirred for 1 hr., filtered and washed, the precipitate slurried in 3 l. of 7% aqueous NaOH, heated to boiling over 40 min., boiled for 5 min., and filtered hot to yield I (X = Y = Z = H). Other I were prepared similarly (X, Y, and Z given): Me, H, H; H, H, Me; H, Me, H; H, Me, Me; Me, Me, H; H, H, Et; Et, H, H. A mixture of 172 g. butyrolactone and 186 g. PhNH₂ was refluxed for 12 hrs. while distilling off the H₂O as formed. The crystals which formed overnight were stirred for 3 hrs. in dilute aqueous HCl, filtered and dried to yield 225 g. 1-phenyl-2-pyrrolidinone (V), m. 59-61°. V (36.75 g.) was stirred into 75 cc. 96% H₂SO₄ at ≤25°, 37.5 cc. HNO₃ (d. 1.42) added dropwise at 8-25°, the cooling bath removed, and after 20 min. the mixture drowned on 600 cc. ice H₂O to yield 33-40 g. 1-(4-nitrophenyl)-2-pyrrolidinone (VI), m. 121.5-135°. VI (33.5 g.) was reduced in 300 cc. EtOH over 5 g. Raney Ni at 1500 psi. and 100°, filtered, and the EtOH distilled to yield 25 g. IV, m. 116.5-118.5°. Similarly prepared were 1-(4-aminophenyl)-5-ethyl-2-pyrrolidinone, 1-(4-amino-3-methylphenyl)-2-pyrrolidinone (m. 83-86°), 1-(4-aminophenyl)-5-methyl-2-pyrrolidinone (m. 115-119°; nitro precursor m. 105-107°), 1-(4-amino-2-methylphenyl)-2-pyrrolidinone (m. 115-120°), 1-(4-amino-2-methylphenyl)-5-methyl-2-pyrrolidinone (m. 140-5°; nitro precursor m. 106-107°), and 1-(4-amino-2,5-dimethylphenyl)-2-pyrrolidinone.
 IT 13691-22-0P 13691-27-5P 13691-28-6P
 13691-29-7P 13691-30-0P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of)
 RN 13691-22-0 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



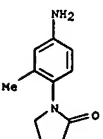
RN 13691-27-5 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



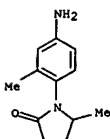
RN 13691-28-6 CAPLUS
 CN 2-Pyrrolidinone, 1-(p-aminophenyl)-5-methyl- (8CI) (CA INDEX NAME)



RN 13691-29-7 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-o-tolyl)- (8CI) (CA INDEX NAME)



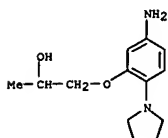
RN 13691-30-0 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-o-tolyl)-5-methyl- (8CI) (CA INDEX NAME)



L13 ANSWER 282 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1967:19856 CAPLUS
 DOCUMENT NUMBER: 66:19856
 TITLE: Diazo sensitizers
 INVENTOR(S): Werner, Georg; Von Poser, Gottlieb
 PATENT ASSIGNEE(S): Keuffel and Esser Co.
 SOURCE: U.S., 3 pp.
 CODEN: USPKAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

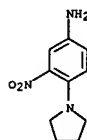
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3281245	US	19661025	US	
PRIORITY APPLN. INFO.:		DE		19620309

GI For diagram(s), see printed CA Issue.
 AB By the procedure described in the preceding abstract, the following I were prepared [R, Y, % yield, and m.p. at 2,5-Cl(O2N)C6H3OCH2CHOH, and % yield and m.p. at 2-pyrrolidino analog given]: H, 2, Cl3, 84, 116-17° (EtOH) (white crystals), -, 120-1° (EtOH) (orange-red); Me, SnCl5, 77, 60-3° (H2O), -, 100.5-2° (EtOH); CH2OH, SnCl5, 82, 78-80° (50% EtOH) (fine ivory crystals), 73, 158-9° (EtOH) (golden yellow crystals).
 IT 13486-67-49
 RL: IMF (Industrial manufacture); PREP (Preparation) (preparation of)
 RN 13486-67-4 CAPLUS
 CN 2-Propanol, 1-[5-amino-2-(1-pyrrolidinyl)phenoxy]- (8CI) (CA INDEX NAME)



L13 ANSWER 284 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1965:439560 CAPLUS
 DOCUMENT NUMBER: 63:39560
 ORIGINAL REFERENCE NO.: 63:7141a-h, 7142a-h, 7143a-e
 TITLE: Correlation of physical and chemical properties of substituted p-phenylenediamines and their dye derivatives
 AUTHOR(S): Bent, R. L.; Brown, G. H.; Giesmann, M. Carolyn; Harnish, D. P.; Tremmel, C. G.; Weissberger, A.
 CORPORATE SOURCE: Eastman Kodak Res. Labs., Rochester, NY
 SOURCE: Photographic Science and Engineering (1964), 8(3), 125-37
 CODEN: PSENA; ISSN: 0031-8760
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 GI For diagram(s), see printed CA Issue.
 AB cf. CA 46, 1464e. Photographic dyes are described from PhOH (I), 1-HOC1OH7 (II), 1,2-HO(BuNHCO)C1OH6 (III), 1-phenyl-3-methyl-5-pyrazolone (IV), 1-phenyl-3-benzamido-5-pyrazolone (V), BzCH2CN (VI), BzCH2CONHPh (VII), and Bz2CH2 (VIII) with developers of general structure IX, where R1 and R2 are alkyl or substituted alkyl groups or together form an N-hetero-cyclic ring and R3 is alkyl, H, halogen, alkoxy, thioalkyl, or together with R2 forms another ring. A linear response from a plot of frequency of maximum of these dyes in MeOH, BuOAc and cyclohexane vs. half-wave oxidation potential (E1/2), denaturation rate, or coupling rates of IX shows a direct relation between maximum of the dye and the electron availability in the p-phenylenediamine system. Because a near-linear plot exists between Hammett σ -constants and E1/2 for 3-substituted IX derivs., steric effects do not significantly effect E1/2 values. The structures and E1/2 (mv.) vs. H electrode) values are given in the table. The following dyes were prepared according to CA 51, 14578d (coupler, developer, $\epsilon_{\text{maximum}} + 10^{-4}$ in cm⁻¹ in MeOH, BuOAc, cyclohexane given): I, XVIII, 1.543, 1.664, 1.715, 2.1, 1.6, -, I, XXI, 1.548, 1.667, 1.724, -, -, I, XXII, 1.563, 1.672, -, -, -, I, XXV, 1.590, 1.709, 1.767, 2.3, 1.9, 1.6; I, XXIX, 1.605, 1.724, 1.767, 3.0, 2.3, 2.1; I, XXXII, 1.629, 1.718, 1.770, 2.1, 1.8, 1.4; I, XXXIV, 1.658, 1.779, 1.835, 1.4, 1.2, 1.1: I, XXXVII, 1.639, 1.736, 1.808, 2.4, 1.9, 1.6; I, XXXVIII, 1.647, 1.742, 1.818, 2.4, 2.0, -, I, XLII, 1.701, 1.776, -, 2.1, 1.8, -, I, X, 1.534, 1.563, 1.618, -, 0.4, -, I, XII, -, 1.577, -, -, -, I, XIII, 1.565, 1.631, 1.675, 1.4, 1.3, 1.2; I, XV, 1.580, 1.647, 1.698, 1.9, 1.7, 1.4; I, XVI, 1.587, 1.656, 1.724, 1.4, 1.3, -, I, XVII, 1.590, 1.621, 1.637, 2.3, 2.8, 3.0; I, XVIII, 1.605, 1.678, 1.721, 1.7, 1.6, 1.4; I, XIX, 1.597, 1.672, 1.712, 1.6, 1.6, 1.5; I, XXII, 1.608, 1.681, 1.718, 1.6, 1.6, -, I, XXV, 1.653, 1.718, 1.773, 1.2, 1.3, 1.3; I, XXVI, 1.650, 1.721, 1.770, 1.6, 1.6, 1.4; I, XXVII, 1.642, 1.695, -, 1.4, 1.4, -, I, XXIX, 1.653, 1.724, 1.773, 1.6, 1.5, -, I, XXX, 1.642, 1.718, 1.764, 1.8, 1.8, 1.6; I, XXXI, 1.667, 1.739, 1.783, -, 1.5, -, I, XXXII, 1.678, 1.739, 1.786, 1.2, 1.2, 0.9; I, XXXIII, 1.672, 1.730, 1.805, 1.7, 1.7, 1.3; I, XXXIV, 1.786, 1.832, 1.873, 0.9, 1.1, 1.0; I, XXXV, 1.656, 1.724, 1.779, -, -, I, XXXVI, 1.669, 1.745, 1.792, 1.6, 1.5, 1.4; I, XXXVII, 1.701, 1.767, -, 1.4, 1.3, -, I, XXXVIII, 1.692, 1.736, 1.835, 1.5, 1.5, -, I, XL, 1.689, 1.754, 1.808, -, -, -, I, XLI, 1.931, 1.957, 1.976, -, -, -, I, XLII, 1.754, 1.802, -, 1.2, 1.2, -, I, XLIII, 1.923, 1.815, 1.845, -, -, -, I, XLIV, 1.859, 1.887, 1.942, 1.8, 0.9, -, I,

L13 ANSWER 283 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1966:35527 CAPLUS
 DOCUMENT NUMBER: 64:35527
 ORIGINAL REFERENCE NO.: 64:6534h, 6535a
 TITLE: Preparative routes to tertiary amine-substituted nitroanilines
 AUTHOR(S): Ainsworth, D. P.; Suschitzky, H.
 CORPORATE SOURCE: Roy. Coll. Advan. Technol., Salford, UK
 SOURCE: J. Chem. Soc., Org. (1966), (1), 111-13
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 64:35527
 GI For diagram(s), see printed CA Issue.
 AB The title compds. were prepared by nitration of acetanilides in Ac2O or in sulfuric acid, and nucleophilic replacement of halogen in the nitro amines (I and II: R1 = Hal).
 IT 5367-57-7, Pyrrolidine, 1-(4-amino-2-nitrophenyl)- (preparation of)
 RN 5367-57-7 CAPLUS
 CN Benzenamine, 3-nitro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 284 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 XLV, 1.961, 1.923, 1.901, -, 0.6, -, III, X, 1.361, 1.399, 1.443, 1.0, 1.1, 1.1; III, XI, 1.383, 1.445, 1.493, 1.2, 1.4, 1.3; III, XII, 1.445, 1.449, 1.508, -, -, -, III, XIII, 1.403, 1.456, 1.502, -, -, -, III, XIV, 1.429, 1.488, 1.558, 3.2, 3.0, 2.8; III, XV, 1.429, 1.481, 1.531, 3.3, 3.0, 2.7; III, XVI, 1.429, 1.471, 1.546, 3.1, 2.8, 2.1; III, XVII, 1.431, 1.460, 1.499, 4.0, 4.6, 4.7; III, XVIII, 1.435, 1.486, 1.550, 3.0, 2.9, 2.8; III, XX, 1.445, 1.495, 1.548, -, -, -, III, XXII, 1.445, 1.493, 1.543, 2.8, 2.7, -, III, XXIV, 1.475, 1.499, -, 2.4, 2.6, -, III, XXV, 1.473, 1.524, 1.582, 2.3, 2.3, 2.3; III, XXVI, 1.529, 1.563, 1.608, 0.8, 0.6, -, III, XXVII, 1.473, 1.515, 1.550, 2.6, 2.6, -, III, XXIX, 1.481, 1.543, 1.603, 2.5, 2.7, -, III, XXXIII, 1.517, 1.560, 1.605, 2.0, 2.2, 1.9; III, XXXIII, 1.502, 1.538, 1.605, 2.7, 2.7, -, III, XXXIV, 1.534, 1.600, 1.656, 1.6, 1.7, 1.8; III, XXXVI, 1.499, 1.548, 1.618, 2.5, 2.5, 2.4; III, XXXVII, 1.522, 1.580, 1.642, 2.3, 2.3, 2.2; III, XXXVIII, 1.524, 1.563, -, 2.5, 2.6, -, III, XLII, 1.577, 1.603, -, 2.0, 2.1, -, III, XLIV, 1.661, 1.675, 1.724, 1.3, 1.5, 1.4; III, XLV, 1.789, 1.808, 1.825, -, -, -, IV, X, 1.543, 1.572, 1.603, -, -, -, IV, XI, 1.742, 1.802, 1.852, 4.3, 3.8, 3.4; IV, XII, 1.754, 1.808, 1.852, -, -, -, IV, XIV, 1.838, 1.912, 1.969, 3.9, 3.7, 3.3; IV, XVII, 1.855, 1.894, 1.931, 5.0, 4.9, 5.0; IV, XVIII, 1.859, 1.931, 2.016, 3.8, 3.6, 3.0; IV, XIX, 1.855, 1.927, 2.008, 4.2, 4.0, 3.4; IV, XX, 1.855, 1.912, 1.980, -, -, -, IV, XXI, 1.859, 1.931, 2.008, 3.6, 3.4, 2.8; IV, XXII, 1.862, 1.912, -, 3.6, 3.6, -, IV, XXIV, 1.873, 1.916, -, 3.3, 3.3, -, IV, XXV, 1.880, 1.949, 2.049, 3.3, 3.1, 2.4; IV, XXVI, 1.887, 1.961, 2.045, 3.8, 3.2, 3.3; IV, XXVII, 1.883, 1.942, -, 3.2, 3.2, -, IV, XXIX, 1.894, 1.961, 2.058, 3.8, 3.7, 3.3; IV, XXXII, 1.916, 1.969, 2.070, 3.2, 3.2, 2.5; IV, XXXIII, 1.898, 1.953, 2.053, 3.5, 3.5, 2.8; IV, XXXIV, 1.890, 1.961, 2.045, 3.2, 3.1, 2.6; IV, XXXVI, 1.905, 1.965, 2.066, 3.5, 3.6, 3.0; IV, XXXVII, 1.908, 1.972, 2.083, 3.0, 3.0, 2.4; IV, XXXVIII, 1.919, 1.976, -, 3.3, 3.4, -, IV, XLII, 1.953, 1.996, 2.174, 2.8, 2.8, -, IV, XLIV, 1.953, 2.008, 2.128, 2.0, 2.1, 1.6; IV, XLV, 1.908, 1.969, 2.041, -, -, -, V, X, 1.534, 1.603, 1.647, 1.8, 1.5, 1.5; V, XI, 1.733, 1.795, 1.648, 5.3, 5.4, -, V, XII, 1.718, 1.786, -, -, -, V, XIII, 1.792, 1.876, 1.949, 3.9, 3.9, 3.7; V, XIV, 1.808, 1.887, 1.957, 5.5, 5.5, -, V, XV, 1.821, 1.876, -, 5.0, -, V, XVI, 1.876, 1.946, -, -, 6.0, -, V, XVII, 1.842, 1.908, 1.972, 5.4, 5.3, -, V, XXII, 1.825, 1.809, -, 4.0, 4.4, -, V, XXV, 1.862, 1.927, -, 5.0, -, -, V, XXVI, 1.862, 1.938, -, -, -, V, XXVII, 1.862, 1.919, -, 4.4, 4.8, -, V, XXIX, 1.869, 1.942, 2.004, 4.5, 4.6, 4.9; V, XXXII, 1.894, 1.946, 2.026, 5.0, 5.2, -, V, XXXIII, 1.876, 1.934, -, 5.0, 5.2, -, V, XXXVIII, 1.894, 1.953, -, 4.4, 4.6, -, V, XLIV, 1.927, 1.996, -, -, -, VI, X, 1.792, 1.838, 1.876, 1.0, 1.1, 1.0; VI, XI, 1.869, 1.923, 1.980, 4.2, 3.8, 3.4; VI, XII, 1.883, 1.938, 1.988, -, 2.8, -, VI, XIII, 1.908, 1.965, 2.004, -, -, -, VI, XIV, 1.961, 2.024, 2.110, -, -, -, VI, XVII, 1.965, 1.992, 2.033, 4.9, 6.0, 6.3; VI, XVIII, 1.976, 2.037, 2.143, 4.4, 4.1, 3.8; VI, XIX, 1.980, 2.041, 2.119, 4.4, 4.0, 3.9; VI, XXI, 1.980, 2.041, 2.123, 4.1, 3.8, 3.3; VI, XXII, 1.980, 2.037, 2.101, 4.0, 3.7, -, VI, XXIV, 2.000, 2.033, -, 3.7,

L13 ANSWER 284 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

3.7, -; VI, XXV, 2.004, 2.066, 2.151, 3.7, 3.3, 3.0; VI, XXVI, 2.004, 2.066, 2.155, 4.3, 4.2, -; VI, XXVII, 2.008, 2.049, -; -; VI, XXIX, 2.012, 2.075, 2.160, 4.0, 3.9, 3.9; VI, XXX, 2.016, 2.070, 2.160, 4.4, 4.2, 4.2; VI, XXXI, 2.020, 2.075, 2.165, 3.9, 3.8, 3.8; VI, XXXII, 2.020, 2.075, 2.165, 3.7, 3.5, 3.2; VI, XXXIII, 2.024, 2.070, 2.174, 3.9, 4.0, 3.4; VI, XXXIV, 2.024, 2.088, 2.174, 3.0, 2.7, 3.0; VI, XXXV, 2.033, 2.088, 2.179, 3.8, 3.8, 3.7; VI, XXXVI, 2.033, 2.088, 2.183, 3.7, 3.7, 3.5; VI, XXXVII, 2.045, 2.105, 2.203, 3.4, 3.4, 3.2; VI, XXXVIII, 2.045, 2.096, -; 3.5, 3.7, -; VI, XL, 2.062, 2.110, 2.203, 4.1, 3.9, 3.8; VI, XLI, 2.075, 2.146, 2.203, 1.2, 1.2, 1.2; VI, XLII, 2.083, 2.119, -; 3.0, 3.2, -; VI, XLIV, 2.114, 2.169, 2.262, 1.9, 1.9, 1.8; VI, XLV, 2.155, 2.198, 2.262, -; -; VII, X, 2.062, 2.155, 2.174, -; -; VII, XI, 2.222, 2.262, 2.299, -; 0.9, 1.0; VII, XII, 2.347, 2.315, 2.326, 0.5,

1.8, 1.0; VII, XIV, 2.257, 2.342, 2.370, 1.8, 1.8, -; VII, XV, 2.198, 2.268, 2.326, -; -; VII, XVI, 2.252, 2.326, 2.381, 1.6, 1.8, 1.7; VII, XVII, 2.203, 2.247, -; 3.0, 3.1, -; VII, XVIII, 2.232, 2.315, 2.358, 1.5, 1.6, 1.7; VII, XIX, 2.227, 2.315, 2.364, -; -; VII, XXI, 2.232, 2.315, 2.364, 1.6, 1.6, 1.7; VI, XXII, 2.242, 2.326, 2.358, 1.6, 1.6, -; VII, XXIV, 2.268, 2.326, -; 1.3, 1.5, -; VII, XXVI, 2.309, 2.387, 2.410, -; 1.9, -; VII, XXIX, 2.315, 2.381, 2.415, 1.9, 2.0, -; VII, XXX, 2.309, 2.381, 2.415, 2.1, 2.1, 1.8; VII, XXXI, 2.336, 2.410, 2.439, 1.6, 1.8, 1.6; VII, XXXII, 2.283, 2.353, 2.415, 1.4, 1.6, -; VII, XXXIII, 2.326, 2.381, 2.451, 1.9, 2.0, -; VII, XXXIV, 2.398, 2.451, 2.513, 1.3, 1.1,

1.6; VII, XXXV, 2.331, 2.398, 2.433, 1.6, 1.7, 1.5; VII, XXXVI, 2.336, 2.410, 2.415, 1.7, 1.7, -; VII, XXXVII, 2.358, 2.421, 2.475, 1.5, 1.6, -; VII, XXXVIII, 2.342, 2.381, -; 1.8, 1.9, -; VII, XLI, 2.457, 2.532, 2.545, -; -; VII, XLIII, 2.433, 2.427, 2.551, -; -; VII, XLIV, 2.475, 2.513, -; 0.8, 1.2, -; VII, XLV, 2.564, -; 2.6, -; VII, XLVII, 2.096, 2.174, 2.242, 1.6, 1.5, 1.1; VII, XLVIII, 2.119, 2.146, 2.237, 1.6, 1.5, 0.9; VII, XLIX, 2.151, 2.222, 2.304, 1.3, 1.1, -; VII, XLX, 2.141, 2.193, 2.257, 1.8, 1.6, 1.3; VII, L, 2.141, 2.198, 2.257, 1.3, 1.1, 0.8; VII, LII, 2.188, 2.237, 2.358, 1.4, 1.3, 1.0; VII, LIII, 2.179, 2.237, -; -; -; Developer, R1, R2, R3, E1/2 Chronopotentiometrically, pH 10, pH 11, E1/2 Polarographically, pH 10, pH 11; X, Et, Et, 3.5-Me2, -; -167, -203; XI, Et, Et, 2.5-(OMe)2, -187, -236, -; XII, Et, Et, 2-OMe-5-Me, -; -239, -270; XIII, Et, Et, 3-tert-Bu, -179, -218, -; XIV, Et, Et, -(CH2)3-(2), -; -182, -213; XV, Et, Et, 3-SMe, -210, -246, -; XVI, Et, Et, 3-OEt, -153, -187; XVII, Et, Et, 3-NHCOMe, -196, -273, -199, -272; XVIII, Et, Et, 3-Me, -190,

-229, -190, -229; XIX, Et, Et, 3-Pr, -193, -233, -; XX, Et, Et, 3-C2H4OH, -; -211, -; XXI, Et, Et, 3-Et, -193, -242, -203, -; XXII, Et, Et, 3-(CH2)2NHCO2Me, -204, -244, -207, -234; XXIII, Et, C2H4OH, 3-Me, -; -188, -242; XXIV, C2H4OH, C2H4OH, 3-Me, -200, -235, -; XXV, Me, Me, -206, -247, -; XXVI, -; -(CH3)4-, H, -188, -202, -; XXVII, Et, (CH2)2NHCO2Me, 3-Me, -204, -248, -190, -247; XXVIII, Et, (CH2)2SO2H, 3-Me, -256, -279, -; XXIX, Et, Et, H, -216, -260, -266; XXX, Et, Pr, H, -210, -; -217, -; XXXI, Me, iso-Pr, H, -228, -278, -; XXXII, Et, 3-Cl, -270, -312, -271, -323; XXXIII, Et, C2H4OH, H, -; -206, -; XXXIV, -; -(CH2)5-, H, -; -254, -307; XXXV, Me, Pr, H, -216, -260, -225, -; XXXVI, Me, Et, -224, -; -231, -; XXXVII, Me, Me, H, -228, -; -235, -; XXXVIII, (CH2)2NHCO2Me, H, -222, -272, -219, -275; XXXIX, Et, (CH2)2SO3H, H, -; -

XL, Et, Et, 3-F, -254, -320, -; -; XLI, Et, Et, 2.5-Me2, -; -321, -; XLII, Et, CH2CONH2, H, -; -290, -; XLIII, Et, Et, 2-OMe, -256, -; -287, -; XLIV,

L13 ANSWER 285 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 1965:438238 CAPLUS

DOCUMENT NUMBER: 63:38238

ORIGINAL REFERENCE NO.: 63:6774a-b

TITLE: High-molecular-weight alkenyl-N-(p-aminophenyl)succinimides as additives for lubricants, gasolines, and fuel oils

INVENTOR(S): Norman, George R.; Le Suer, William M.

PATENT ASSIGNEE(S): Lubrizol Corp.

SOURCE: 2 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

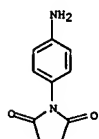
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3194812		19650713	US	19620831

AB The title compds. are useful as dispersants in lubricants. To a mixture of 54 parts of p-phenylenediamine and 408 parts of mineral oil, 577 parts polyisobutene-substituted succinic anhydride was added at 60-80° during 1 hr. The mixture was heated to 150-5° for 5 hrs. While N was bubbled through it and then filtered. The filtrate was an oil emulsion containing 40% polyisobutene-substituted succinimide. Lubricants for internal-combustion engines may contain 0.5-5% of the additive, for gas and diesel engines up to 10% or more, and for gasolines and fuel oils as little as 0.001% or less.

IT 34373-09-6, Succinimide, N-(p-aminophenyl)- (long-chain polyisobutene derivative, as lubricant additive)

RN 34373-09-6 CAPLUS

CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



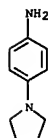
L13 ANSWER 284 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

-(CH2)2O(CH2)2-, H, -316, -367, -305, -358; XLV, Et, Et, 2-Me, -; -341, -376; Alkylation of 2,5-(MeO)2C6H3NH2 with EtI gives 69% 2,5-(MeO)2C6H3NH2, b5 122-5° which is treated with diazotized 2,5-(MeO)2C6H3NH2 (XLVI) to give 4,2,5-Et2N(MeO)2C6H2N-C2H3Cl2-2,5, m. 168-9°, from which 4,2,5-Et2N(MeO)2C6H2NH2 (XI), b. 120-5°, m.p. 48-9.5° (ligroine), is obtained by reduct. over Raney Ni. Similarly, 3-FC6H4NH2, b5.5 86.5-8°, pred. by alkylation of 3-FC6H4NH2, is treated with diazotized XLVI to give 2,4-F(Et2N)C6H3N:NC5H3Cl2-2,5, m. 87-8° (95% EtOH), which is reduced to 2,4-F(Et2N)C6H3NH2 (XL), b5 121-2°; XL-HCl, m. 246° (decompn.) (EtOH). The dye, m. 136-7° (EtOH) from XLVI and 3-tert-BuC6H4NH2, b6 120-2°, n20D 1.5178, is reduced to developer XIII, b1 106-8°; XIII-HCl, m. 227-8.5°; the N-ac deriv. of XIII m. 158-9°. Alkylation of 3-O2NC6H4SH with Me2SO4 gives 79% 3-O2NC6H4SMe, b1 90-2°, n25D 1.6148 which is reduced to 3-H2NC6H4SMe in 93% yield, b8 141-3°, n25D 1.6413 (N-ac deriv. m. 74.5-5°) and then alkylated with EtI, in 78% yield, to 3-MeSC6H4NH2 (XLVII), b1 131-4°, n25D 1.5805. XLVI + XLVII, m. 119-20°, is reduced to developer XV in 75% yield; XV-2HCl m. 215° (decompn.) (10:1 EtOH-H2O). Redn. of 3-H2NC6H4COEt by a modified Wolff-Kishner reaction gives 75% 3-H2NC5H4Pr, b10 107-9°, n25D 1.5408, which is alkylated with EtI and treated with diazotized XLVI to give 2,4-Pr(Et2N)C6H3N:NC6H3Cl2-2,5, m. 60-1° (EtOH), which is reduced to developer XIX, b1 158-62°; XIX-2HCl, m. 95-6° (hygroscopic).

IT 2632-65-7, Pyrrolidine, 1-(p-aminophenyl)- (deamination rate and polarography of, spectra of derived dyes in relation to)

RN 2632-65-7 CAPLUS

CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 286 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 1962:29287 CAPLUS

DOCUMENT NUMBER: 56:29287

ORIGINAL REFERENCE NO.: 56:5540g-1,5541a-b

TITLE: Ultraviolet spectra in alkaline solution of succinimide, phthalimide, and some N-aryl derivatives

AUTHOR(S): Arcoria, Antonino; Bottino, Francesco

CORPORATE SOURCE: Univ. Catania, Italy

SOURCE: Annali di Chimica (Rome, Italy) (1961), 51, 116-23

CODEN: ANCRAT; ISSN: 0003-4592

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

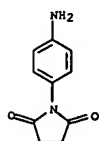
AB Succinimide (I), phthalimide (II), and their N-aryl derivs. were investigated, 220-500 mμ, in solns. 1:100.000 in 0.1N NaOH. In alkaline solution I and II undergo opening of the 5-membered ring through cleavage of a single C-N bond with a nucleophilic attack by the OH- group at one of the carbonylic C. The measurements were made on -OOCCH2CH2CONHR (III), where R is H, Ph, m- or p-MeC6H4, p-EtOC6H4, o-, m-, or p-ClC6H4, p-BrC6H4, p-NH2C6H4, o-, m-, or p-NO2C6H4, o-NO2C6H4CH2; and -OOCCH2CH2CONHR-o (IV) where R is H, Ph, o-, m-, or p-MeC6H4, p-MeOC6H4, o-, m-, or p-ClC6H4, p-BrC6H4, p-BrC6H4, o-, m-, or p-NH2C6H4, p-ACNH6H4, o-, m-, or p-NO2C6H4, PhCH2. Max and min. absorption wavelengths, m.μs., and a bibliography for preps. are tabulated. IIIa (R = Ph) has a maximum at 241 mμ, log ε 4.04; para substitution of the N-phenyl group has a little bathochromic effect in the order H < Me < EtO < Cl < Br < NH-. Maximum of III undergo a bathochromic displacement to the lower frequencies in respect to maximum of the corresponding cyclic compds. measured in EtOH solution

log IIib (R = o-NO2C6H4) and IIic (R = p-NO2C6H4) have maximum at 412 mμ, ε 3.51, and 383 mμ, log ε 4.11, IIid (R = o-NO2C6H4CH2) has a maximum at 266 mμ, log ε 3.63, value attributed to the absence of conjugation N(amidic) → NO2. Phthalic acid has only 1 maximum at 271 mμ, log ε 3.03 and IVa (R = Ph) has only 1 inflection at 240 mμ, log ε 4.08; para halogen and NHAc substitution of the N-phenyl group has a bathochromic effect in the order Cl < Br < I < NHAc. Spectral comparison between para-halogen substituted IV and 5-membered related compds. (in EtOH solution) showed an average bathochromic effect of 12 mμ.

IT 34373-09-6, Succinimide, N-(p-aminophenyl)- (spectrum in alkaline solution)

RN 34373-09-6 CAPLUS

CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 287 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

pyridinioethyl)aniline chloride hydrochloride (III), decomp. above 140 after recrystn. from a mixt. of abs. EtOH-acetone contg. a little HCl.

To III (10 g.) dissolved in 150 ml. abs. EtOH contg. 2 ml. HCl is added 2 g. of 10% Pd-on-charcoal and the mixt. is shaken under 45 pounds of H for 45 min. After 50 ml. H₂O is added, the mixt. is filtered and evapd. at room temp. in vacuo to give an oil. Abs. EtOH is added and the soln. is evapd., the oil treated with a little abs. EtOH contg. ether to yield 6.7 g. (70%) of crude 4-amino-N-ethyl-3-methyl-N-(2-pyridinio-ethyl)aniline chloride hydrochloride (IV). IV (2 g.) is slurried in 20 ml. of boiling abs. EtOH, 25 drops of HCl is added, the soln. filtered and cooled to yield 1.4 g. (70%) of bright yellow crystals (no m.p.).

4-Amino-4-ethyl-N-(2-sulfoethyl)aniline (V), m.p. 268-9° (decomp.), is prepd. as the 3-methyl homolog (CA 51, 1755c). V is recrystd. from H₂O and dried in vacuo as soon as possible to prevent oxidn. A soln. of 252 g. Na₂SO₃ in 1200 ml. H₂O was added in 2.5 hrs. to 315 g. of 1-bromo-3-chloropropane in 1200 ml. of 95% EtOH and 400 ml. H₂O, and the mixt. was heated and stirred for 3.5 hrs. The reaction mixt. is concd.

to dryness in vacuo and the residue is dissolved in 5300 ml. of 95% EtOH, filtered hot, chilled, and the solid is filtered and washed with cold EtOH

to yield 128 g. (35%) of Na 3-chloropropanesulfonate (VI).

of 3-hydroxypropenesulfonic acid sulfone (VII) is prepd. by the hydrolysis of VI according to Willems (CA 50, 1666b). A mixt. of 3.93 g. N-ethyl-3-methylaniline (redn. of 3-methylacetanilide with LiAlH₄), 50 ml. dry benzene, and 3.55 g. VII is refluxed for 8 hrs. After chilling, the ppt. is filtered, washed with dry benzene, slurried with 75 ml. acetone, and dried in air to yield 5.25 g. (70%) N-ethyl-3-methyl-N-(3-sulfoethyl)aniline (VIII). VIII is nitrosated, neutralized with NaOH, and reduced to yield the Na salt of N-ethyl-3-methyl-4-nitroso-N-(3-sulfoethyl)aniline (IX). IX is reduced catalytically at 50 lb./sq. in. in 20 ml. H₂O, 150 ml. EtOH, and 1.5 g. of 10% Pd-on-charcoal. The filtrate is concd. to dryness and extd. with 75 ml. of 95% EtOH, filtered hot, again concd., extd. with a mixt. of 55 ml. acetone and 400 ml. 95% EtOH, and concd. to dryness. The gummy product is converted to the hydrochloride by heating with 50 ml. HCl in 25 ml. H₂O and evapd. to dryness. The residue is dissolved in 35 ml. of 95% EtOH, filtered, and the salt of the developer is pptd. with ether. The alc.-ether treatment is repeated. Finally, the material is dissolved in abs. alc., filtered, and concd. to dryness. The solid is broken up and dried in vacuo to yield

1.4 g. (45%) of 4-amino-N-ethyl-3-methyl-N-(3-sulfoethyl) aniline-HCl (X), slightly hygroscopic. A mixt. of 51 g. of N-ethyl-3-methylaniline, 53.1 g. of Et bromacetate, 400 ml. of 95% EtOH, 200 ml. H₂O, and 31.8 g. NaHCO₃ is refluxed for 17 hrs. After the alc. is removed, the product is extd. with ether, dried, concd., and distd. to give 68 g. (81.3%) N-carbethoxymethyl-N-ethyl-3-methylaniline (XI), b₁₀ 152-6°. The azo dye, N-carbethoxymethyl-4-(2,5-di-chlorophenylazo)-N-ethyl-3-methylaniline (XII), m. 152.5-153.5°, is prepd. by coupling II with purified, diazotized 2,5-dichloroaniline (XII A). XII (7.88 g.) is reduced with 200 ml. EtOH and Raney Ni. The catalyst is filtered off, 1 equiv. of HCl is added, and the soln. concd. to dryness. The residue is dissolved in 30 ml. of hot acetone, chilled, and a little ether is added to yield 3.6 g. (70%) 4-amino-N-carbethoxymethyl-N-ethyl-3-methylaniline-HCl (XIII), m. 171.5-173.5° (decomp.). XIII (2.35 g.) is hydrolyzed by refluxing with 20 ml. HCl and 55 ml. H₂O for 7 hrs. The

L13 ANSWER 287 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

soln. is concd. to dryness and the residue slurried with 50 ml. acetone, decanted, and the procedure repeated. The solid is dried in vacuo to yield 2 g. (82%) 4-amino-N-carbethoxymethyl-N-ethyl-3-methylaniline-di-HCl (XIV), decomp. at 150°. Analysis indicates a mixt. of mono- and dihydrochlorides. A mixt. 107 g. m-toluidine, 334 g. Et bromacetate, 184.5 g. NaHCO₃, 1200 ml. 95% EtOH, and 500 ml. H₂O is refluxed for 60 hrs. The alc. is removed and the oil extd. with ether. The ether is dried, concd., and distd. and the first fraction, b₁₀ 160-70°, is of N-carbethoxymethyl-3-methylaniline (m. 66.5-67.5°). The fraction b₁ 150-65° is collected and redistd. slowly to yield 77 g. (27.5%) N,N-bis(carbethoxymethyl)-3-methylaniline (XV), b₁ 135-43°. The coupling of diazotized XII A with 60 g. XV yields 31.5 g. (32.5%) of N,N-bis(carbethoxymethyl)-4-(2,5-dichlorophenylazo)-3-methylaniline (XVI).

m. 118-19.5° (95% EtOH). 4-Amino-N,N-bis(carbethoxymethyl)-3-methylaniline-HCl (XVII), m. 162-6°, is made from XVI by redn. and yields 2.85 g. (85%). XVII is hydrolyzed to yield 4-amino-N,N-bis(carbethoxymethyl)-3-methylaniline-HCl, light tan powder, decomp. 135°. A mixt. of 78.75 g. 1-chloro-4-nitrobenzene and 105 g. 2,2'-iminodiethanol is heated for 4.5 hrs. at 130-40°. The warm mixt. is poured into 500 ml. cold H₂O, the solid filtered, washed with H₂O, dried, slurried with ether, filtered, and the solid recrystd. from aq. EtOH to yield 25 g. (22%) N,N-bis(2-hydroxyethyl)-4-nitroaniline (XVIII), m. 103-4°. XVIII is reduced in EtOH by 10% Pd-on-charcoal to yield 4-amino-N,N-bis(2-hydroxyethyl)aniline free base, b₁ 201-5°, m. 87-8°. The free base is converted to the sulfate by dissolving 14.5 g. in 60 ml. abs. alc. and adding 1 equiv. of H₂SO₄ in 20 ml. EtOH; the sulfate m. 172-3° with effervescence.

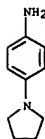
2,2'-(m-Tolyl)iminodiethanol (XIX) is distd. in vacuo and the fraction, b₁ 160-5°, m. 65-7°, is collected. Nitrosation of XIX yields N,N-bis(2-hydroxyethyl)-3-methyl-4-nitrosoaniline (XX), m. 109-10°. XX is reduced in EtOH by Pd-on-charcoal. The filtrate is concd. to dryness, crystd. first from 1600 ml. acetonitrile and then from 600 ml. 95% EtOH to yield 56% of 4-amino-N,N-bis(2-hydroxyethyl)-3-methylaniline, m. 113-14°. A mixt. of 100 g. of 3,5-dimethylaniline and 88.1 g. ethylene oxide is shaken at 150° for 16 hrs. The reaction mixt. is extd. with EtOH, concd. to dryness, and distd. The fraction, b₃ 160-72°, 136 g., is collected after recrystn. from 1500 ml. of a 50:50 benzenelignroine mixt. to yield 97 g. (56%) of N,N-bis(2-hydroxyethyl)-3,5-dimethylaniline (XXI), m. 103-4°. Nitrosation of 20.93 g. XXI gave 6.65 g. N,N-bis(2-hydroxyethyl)-3,5-dimethyl-4-nitrosoaniline (XXII), m. 150-2° (acetone-C₆H₆), light brown crystals. XXII is reduced as before to give 75% 4-amino-N,N-bis(2-hydroxyethyl)-3,5-dimethylaniline, light brown solid, m.p. 110-12° (H₂O). A mixt. of 135 g. of N-ethyl-m-toluidine, 139 g. 3-bromopropanol, 800 ml. of 95% EtOH, and 250 ml. H₂O is refluxed for 60 hrs. After concn., the oily layer is extd. with ether, the ether extracts dried, filtered, concd., and the residue is

diatd. in vacuo to yield 129 g. (67%) N-ethyl-N-(3-hydroxypropyl)-3-methylaniline (XXIII), b₁₅ 176-80°. Diazotized XIIA is coupled with XXIII to give 18.5 g. (50.5%) 4-(2,5-dichlorophenylazo)-N-ethyl-N-(3-hydroxypropyl)-3-methylaniline (XXIV), m. 92-4° (MeCN). The redn. of XXIV with Raney Ni catalyst yields the free base. The free base is distd. in vacuo and the fraction collected b₁ 149-52°. An equiv. of H₂SO₄ is added to an alc. soln. of the free base to give 4-amino-N-ethyl-N-(3-hydroxypropyl)-3-methylaniline sulfate, m.

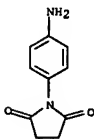
L13 ANSWER 287 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 155-6°. A mixt. of 50 g. 3-hydroxypiperidine and 39.8 g.
 p-nitrochlorobenzene is heated on a steam bath for 5.5 hrs., warmed with
 250 ml. H₂O, cooled, filtered, and again treated with 250 ml. H₂O to
 yield
 24.6 g. (45%) of N-(4-nitrophenyl)-3-hydroxypiperidine (XXV), m.
 126.5-128.5° (EtOH). XXV is reduced with 10% Pd-on-charcoal and
 abs. alc. An equiv. of H₂SO₄ is added to the filtrate, the solid is
 filtered and dried in vacuo to yield 84% N-(4-aminophenyl)-3-
 hydroxypiperidine hemisulfate, m. >240° (decomp.).
 IT 2632-65-7, Pyrrolidine, 1-(p-aminophenyl)-
 (deamination of)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 288 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1958:61201 CAPLUS
 DOCUMENT NUMBER: 52:61201
 ORIGINAL REFERENCE NO.: 52:110541, 11055a-c
 TITLE: Color and constitution. V. Indaniline dyes
 AUTHOR(S): Hunig, Siegfried; Richters, Peter
 CORPORATE SOURCE: Univ. Marburg, Germany
 SOURCE: Ann. (1957), 612, 282-8
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB cf. C.A. 51, 3524g. A relationship was found between absorption maximum
 of
 indaniline dyes from o-cresol and N,N-dialkyl-p-phenylenediamines
 and the polarographic half-wave potential of the diamine; with increasing
 λ of the indaniline, the half-wave potential of the p-phenylenediamine
 p-phenylenediamine increased. The indanilines were prepared from 12.5
 millimoles o-cresol and 13.8 millimoles of the p-phenylenediamine
 with AgCl as oxidant, chromatographed on Al₂O₃ and when crystalline were
 recrystd. from methylcyclohexane. The following 2- methylbenzoquinone-4-
 anils were prepared (substituent, m.p., λ in mμ at pH 6.3,
 (ε), and half-wave potential of the diamine given):
 4'-dimethylamino, 126°, 630(19,800), +235; 4-diethylamino, -,
 648(29,800), +222; 4'-[N-ethyl-N-(2-hydroxyethyl)amino], -, 635(28,600),
 +202; 4'-(N-pyrrolidinyl), 143°, 655(28,600), +202; 4'-piperidino,
 130°, 595(11,000), +254; 4'-morpholino, 142°, 545(9900)
 +315; 2'-methyl-4'-dimethylamino, 116°, 655(14,900), +190;
 3'-methyl-4'-dimethylamino, -, 505(-), -;
 2',6'-dimethyl-4'-dimethylamino,
 -, 610(2300), +165; 2'-chloro-4'-dimethylamino, 119.5°,
 625(14,100), +285; 2'-bromo-4'-dimethylamino, 111.5°, 625(13,500),
 +280. 2-Methylbenzoquinone-N-[6-(N-ethyl-1,2,3,4-tetrahydroquinolyl)]-4-
 imine, prepared from 6-amino-N-ethyl-1,2,3,4-tetrahydroquinoline oxalate
 (half-wave potential +182) and 2-methyl-4-fluorophenol in 2N Na₂CO₃ with
 excess K₃[Fe(CN)₆], was an unstable product (λ 680), which turned
 brown in 12 hr.; 2-methylbenzoquinone-N-(6-julolidino)-4-imine was
 red-violet and viscous, λ 700(21,000); half-wave potential of
 6-aminojulolidine +142.
 IT 2632-65-7, Pyrrolidine, 1-(p-aminophenyl)-
 (polarography of)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 289 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1958:43856 CAPLUS
 DOCUMENT NUMBER: 52:43856
 ORIGINAL REFERENCE NO.: 52:7853a
 TITLE: Ultraviolet spectra of some N-arylsuccinimides
 AUTHOR(S): Arcoria, A.; Lumbruso, H.; Passerini, R.
 CORPORATE SOURCE: Univ. Catania, Italy
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 Scienze Naturali in Catania (1957), 3, 537-41
 CODEN: BOGCAB; ISSN: 0366-1768
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB Maximum and min. absorption wave lengths and m.ps. are tabulated for
 succinimide and the following N-aryl substitution products: (Ar = Ph,
 C₆H₄Me (o,m,p), C₆H₄Cl (o,m,p), p-C₆H₄Br, p-C₆H₄OMe,
 p-C₆H₄OEt, C₆H₄NO₂ (o,m,p), p-C₆H₄NH₂, CH₂Ph, and
 CH₂C₆H₄NO₂ (o,p), prepared according to methods reported in the
 literature.
 IT 34373-09-6, Succinimide, N-(p-aminophenyl)-
 (spectrum of)
 RN 34373-09-6 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



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 ACCESSION NUMBER: 1956:89210 CAPLUS
 DOCUMENT NUMBER: 50:89210
 ORIGINAL REFERENCE NO.: 50:16783b-1, 16784a-1, 16785a-1, 16786a-1, 16787a-1, 16788a-
 1, 16789a-b
 TITLE: Ethylation. VI. Dehydrogenation of γ-diols and
 reactions of γ-lactones
 AUTHOR(S): Reppe, Walter; et al.
 SOURCE: Ann. (1955), 596, 158-224
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 50:89210
 GI For diagram(s), see printed CA issue.
 AB (CH₂CH₂OH)₂ (250 g.) and 12 g. catalyst (prepared by reducing Cr₂O₃
 containing
 CuCO₃ with H at 200°; Raney Cu may also be used) heated at
 170-200° and fresh diol added as the product distilled give
 γ-butyrolactone (LVI), b. 203°, b₂ 91-2°, in quant.
 yield. LVI (172 g.) added during 4 h. to 600 g. HNO₃ (d. 1.42) and 200
 mL. H₂O at 70° and held at 50° 10 h. gives 135 g.
 (CH₂CO₂H)₂. LVI (86 g.) and BF₃ at 40° give 120 g. adduct, m.
 60-2°, b₀ 0.5° 75°; other γ-lactone-BF₃ adducts are
 (lactone given): γ-Me-LVI, b₂ 110-11°; phthalide, m.
 84° (decomposition); hexahydrophthalide, m. 62°; coumarin, m.
 152° (decomposition). Other lactones prepared like LVI in above 75%
 yield
 from the corresponding glycols are: γ-valerolactone, b₁₄
 88-90°; γ-caprolactone, b₁₈ 100-2°;
 9,10-dihydroanthracene-(9,10-endo)-butyrolactone (from XLVIII), m.
 226° (from alc.); 8-valerolactone. HO(CH₂)₆OH (200 g.)
 dehydrogenated in 1 l. LVI gave 70 g. ε-lactone, b₁ 76-8°,
 20 g. dimeric ε-lactone, m. 110-11°, and 100 g. trimer and
 polymer. [MeCH(OH)CH₂]₂ over pelleted Cu catalyst containing 2% Cr₂O₃ at
 190° gives 70% (AcCH₂)₂, b₁₁ 78°; di-oxime, m.
 134.5°; semicarbazone, m. 199-200°. At 160-70°,
 MeCH(OH)CH₂CH₂Ac, b₁₁ 85-7° (oxime, b₂ 109-10°;
 semicarbazone, m. 148.5°), is formed in considerable amount
 [MeCH(OH)CH₂]₂ trickled over CuCO₃ containing 1% Cr₂O₃ and 2% KOH
 (reduced at
 200° with H) at 200° gives 13.5% 2,5-Me₂-XIIa, 31%
 3-methylcyclopentanone, b. 142-3° (oxime, m. 68-70°, b₂₂
 106-8°; semicarbazone, m. 174°), 9% (AcCH₂)₂, and 3.5% of
 (probably) 2,5-dimethyl-2-hydroxy-XIIa. Comps.dehydrogenated similarly
 are (compound, product, yield if given, and const.): [EtCH(OH)CH₂]₂
 (catalyst contained 2% Cr₂O₃), 2-methyl-3-ethylcyclopentanone, 75%, b.
 175-80° (oxime, m. 83-5°); semicarbazone, (m.
 186-7°), and 2-methyl-3-ethyl-2-cyclopenten-1-one, 15%, b.
 180-5°, b₂₁ 105-10° (oxime, m. 97-8°; semicarbazone,
 m. 185°) (prepared in 80% yield at 250°; alkali-free catalyst
 at 150° gives also a compound, b. 151-5°, probably
 2,5-di-Et-2-HO-XIIa); MeCH(OH)CH₂CH₂CH(OH)C₆H₁₃, a mixture (75% yield)
 containing 51% 2-amyl-3-methylcyclopentanone, b₁₈ 120-15°
 (semicarbazone, m. 141-4°), 10% 2-amyl-3-methylcyclopenten-2-one,
 b₁₈ 130-5°, and 39% condensation products (alkali-free catalyst
 gave 80% of a mixture containing 51% 2-methyl-5-hexyl-XIIa, b₂₀ 103-6°,
 and 33% of a mixture of the above ketones); PhCH₂CH(OH)CH₂CH₂CH(OH)Me,
 CHPh.CHMe.CH₂.CH₂.CO, b₃ 150-5°; [MeCH(OH)CH₂CH₂]₂
 CHMe.CHAc.CH₂.CH₂.CH₂.CH₂, 80%, b. 167° (oxime, b₀ 5° 74-5°;
 semicarbazone, m. 153-4°) (at 300°, 71% MeC:Ac.CH₂.CH₂.CH₂.CH₂.
 b. 180-7° (semicarbazone, m. 188°), is formed; at

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180°, the product is Ac(CH₂)₂Ac. XXCV-(901) over ZnO at 450-500° gives 55-60% furan. Anhyd. XXCVa and MeOH at 150-200° over Cu-Cr₂O₃ supported on ZnO (or CuO or Al₂O₃) give CH₂CH₂CH₂CO₂Me, b. 104° in good yield. 3-HO-XIIa over Cu catalyst contg. 0.5% Cr₂O₃ at 250° gives 40% CH₂CH₂CH₂CO₂Me, b. 34-5°; oxime, m. 66°. CH₂CH₂CH₂OH, CH₂CH₂CO₂ over Cu catalyst contg. 2% Cr₂O₃ gives CH₂CH₂CH₂CO₂Me, b. 155° [semicarbazone, m. 195° (from MeOH)], in quant. yield. LVI (160 g.) and 100 mL. BzH in 400 mL. C₆H₆ treated at 20° with 70 g. NaOMe give 140 g. CH₂CH₂CH₂CO₂Me, m. 115-16°, hydrogenated over Raney Ni at 100° and 200 atm. to CH₂CH₂CH₂CH₂CO₂Me, b. 2-0.5123-9°. The following CH₂CH₂CH₂CO₂Me, CO₂O prepd. and hydrogenated similarly are (R, with consts.; consts. of hydrogenation product in parentheses): o-ClC₆H₄CH, m. 92° (b. 143-7°); cyclohexylidene, b. 170-80° (b. 162-5°); C₈H₁₇CH, b. 20 187-94° (b. 20 174-82°); furfurylidene, m. 95° (furfuryl deriv., b. 0.3-0.8 126-36°; tetrahydrofurfuryl deriv., b. 20 156-66°). EtOAc (264 g.) and 70 g. Na added in small portions at 80° to 258 g. LVI, and another 80 g. EtOAc added give 130 g. α-Ac-LVI (LVII), b. 118 130-2°. CH₂CH₂CH₂CO₂Me prepd. similarly from LVI and the Me or Et ester of the corresponding acid are given): caproyl, b. 160-70°; undecylenyl, b. 215-21°; Bz, m. 57° (from H₂O), b. 210-13°. Comps. prepd. from LVII are (compd., with consts. and yield, if given; reagents, and conditions in parentheses): α-nitroso-LVII, m. 88° (from alc.) (NaNO₂H₂SO₄); CH₂CH₂CH₂CO₂Me, m. 221° (from 30 g. PhNH₂ diazotized and coupled with 40 g. LVII in aq. NaOAc); HOCH₂CH₂CH₂CH₂CO₂Me-Na₂CO₃ (LVIII), b. 182° (from H₂O) (NH₂NH₂.H₂O); 1-Ph-LVIII, m. 94° (from Me₂CO) (PhNH₂) [this with MeI in MeOH gives the 2-Me deriv., m. 115° (from Me₂CO)]; 1-p-nitrophenyl-LVIII, m. 159° (from alc.) (p-O₂NC₆H₄NH₂); α-Me-LVI, b. 195-203°, 130 g. (46 g. Na in 1 l. MeOH added with cooling to 256 g. LVII and 200 g. MeBr, with acid splitting of the resulting α-Me-LVI); α-Bu-LVII, b. 133-7° low yield (LVII, BuBr, and NaOMe); CH₂CH₂CH₂CH₂CO₂Me, m. 77 g. (23 g. Na in 500 mL. MeOH added with cooling to 128 g. LVII, and 110 g. ClCH₂CO₂Me added); α,α'-phthaloyldi-LVI, m. 186° (from alc. or H₂O) (from di-Et phthalate and LVII). Cl passed into 500 g. LVI 6 h. at 125-40° gives 550 g. α-Cl-LVI (LIX), b. 20 125°, b. 0.5 90-3°. LIX with hot Ba(OH)₂ gives α-HO-LVI, b. 0.5 128-30° which, with anhyd. NH₃, gives HOCH₂CH₂CH₂CO₂Me, m. 108°. LIX with EtOH satd. with HCl, CH₂CH₂CH₂CO₂Me, b. 107-84°, with 50% aq. Me₂NH 8 h. at 130°, α-Me₂N-LVI (picrate, m. 163° (from alc.)), and with Bu₂NH, α-Bu₂N-LVI, b. 20 165-8°. α-Substituted LVI prepd. analogously from α-Bu-LVI (LX) are (substituents with consts. and yield of compd. if given; reagents and conditions in parentheses): NH₂ (prepd. as a salt, m. 193-5°, contg. both HCl and HBr, from LX and 1 l. 20% NH₄OH 8 h. at 120-30°); phthalimido (LXI), m. 176-8°, 231 g. (165 g. LX in 500 mL. xylene refluxed 3 h. with 185 g. K phthalimide) [LXI with excess NH₃ at 180-90° gave α-phthalimido-LXII, m. 195° (from alc.)]; α,α'-thiodi-LVI, b. 20 208°, m. 88° (from H₂O); LXII, 170 g. (from 300 g. LX added to 280 g. Na₂S in 500 mL. H₂O); α,α'-dithiodi-LVI, m. 111-13° (from H₂O) (from Na₂S₂); NaSO₃, m. 240-2° (from MeOH) (from LX and NaHSO₃ at 50-60°; also from LVI and SO₃ in CHCl₃); thiocyanato, b. 138-43° (decompn.) (prolonged stirring of LX with aq. NaSCN); isothiourea, m. 132-4° (from H₂O or MeOH) (as the HBr salt, m. 164-6°, from LX and

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gives 27 g. HO(CH₂)₂CO₂Et, b. 6 112, which (35 g.) stirred with 40 g. SOCl₂ 6 h. at 85° gives Cl(CH₂)₂CO₂Et, b. 125-7°. LVI (172 g.), 300 g. BuOH, and 5 mL. H₂SO₄ 8 h. at 150-60° give 72 g. BuO(CH₂)₂CO₂Me, b. 134°. HO(CH₂)₂CO₂Me prepd. similarly are (R given): Et, b. 16 78-80°; C₆H₁₃, b. 2 155-60°; C₈H₁₇, b. 2 160-5°. γ-Valerolactone (100 g.), 300 g. n-nonyl alc., and 2 g. NaHSO₄ 4 h. at 170° give MeO(CH₂)₄CH₂CH₂CO₂Me, b. 0.6 161-5°. LVI (440 g.) mixed slowly at 100° with 1350 mL. 40% NaOH and evapd., the residue powd. and dried in vacuo at 200°, 2 kg. LVI added, the soln. refluxed 3 h., the LVI decanted, the solid dissolved in 2 l. warm H₂O and acidified to Congo red with 25% H₂SO₄, and the oil distd. gives 700 g. O(CH₂)₂CO₂Et, b. 1200-10°, m. 61°. di-Me ester, b. 2 154-5°, di-Et ester, b. 0.4 109-10°, di-Bu ester, b. 2 165°, di(ethylhexyl) ester, b. 5 220°; diamide, m. 155° (from alc.). MeS(CH₂)₂CO₂Me (75 g. from 86 g. LVI and 70 g. NaSH in 300 mL. MeOH refluxed 8-12 h.), b. 9 138-45°. RS(CH₂)₂CO₂Me similarly prepd. are (R given): Et, b. 10 144°; Ph, b. 182°; m. 69°; p-MeC₆H₄, b. 180°. m. 81°. 2-naphthyl, m. 89° (from methylcyclohexane and C₆H₆). LXII Et ester (200 g.), 103 g. KSH, and 200 mL. alc. 12 h. at 120-30° give 32 g. HS(CH₂)₂CO₂Et, b. 13 165°. S[(CH₂)₂CO₂Et]₂ (LXIII) (240 g. from 430 g. LVI treated in portions with 110 g. anhyd. Na₂S at 160-70°, heated 1 h. at 190-200°, distd. in vacuo, and the residue dissolved in 400 mL. H₂O and acidified), m. 100° (from C₆H₆); di-Me ester, b. 0.6 132-6°; di-Et ester, b. 0.8 138-40°; di-iso-Bu ester, b. 0.5 180°; di(ethylhexyl) ester, b. 0.6 210-25°; dihydrazide, m. 130° (from BuOH). LXIII di-Bu ester (500 g. from 300 g. LVI and 150 g. anhyd. Na₂S in 2 kg. BuOH refluxed several hrs., dild. with 250 mL. H₂O, stirred 1 h. at 60-70° with 500 mL. 40% H₂SO₄, and the org. layer heated to complete esterification), b. 0.6 172-5°. NH₃ passed into 618 g. LXIII at 150° until the theor. amt. of H₂O has distd. gives 355 g. S[(CH₂)₂CONH₂]₂, m. 148° (from H₂O). S[(CH₂)₂CONH₂]₂ prepd. analogously are (R and m.p. given): Me, 127°; Et, 133°; Bu, 133°; iso-Bu, 129°; cyclohexyl, 165°. Powd. Na₂S₂ (50 g.) added to 120 g. LVI and 170 g. BuOH at reflux and the mixt. refluxed 3-4 h. gives 100 g. S[(CH₂)₂CO₂Et]₂, m. 107° (from C₆H₆) which (119 g.) with 16 g. S 4-5 h. at 150-60° gives 135 g. S[(CH₂)₂CO₂Et]₂. Cl passed at 20° into 100 g. powd. LXIII in 700 mL. H₂O for 3 h. gives 110 g. O₂S[(CH₂)₂CO₂Et]₂, m. 198° (from H₂O). The diesters prepd. are: Me, m. 67°; Et, m. 38°; Bu, m. 44°; iso-Bu, m. 41°; cyclohexyl, m. 76°. LVI (86 g.) and 116 g. anhyd. Na₂SO₃ in 500 mL. H₂O heated 5 h. to 200°, the soln. heated with a little 30% H₂O₂, decolorized, the calcd. amt. of BaCl₂ added, filtered, and an equal vol. of alc. added give 90 g. O₂S[(CH₂)₂CO₂Et]₂. LVI (300 g.) and 170 g. anhyd. NaCN heated cautiously to reflux, and held at 200° for a time after reaction subsides gives 100 g. pure NC(CH₂)₂CO₂Et (LXIV), m. 35°, and 140 g. oil contg. about 88% LXIV which, on distn., gives glutarimide, m. 154° (from alc.). LXIV Me ester (75 g., b. 20 116-20°), 50 g. NH₃, and 12 g. Raney Co with H at 90° and 200 atm. gives 46 g. piperidone, m. 40°, b. 136-7° with Cu chromite at 250° and 200 atm., without NH₃, approx. equal amts. of piperidone and piperidine are formed. A mixt. (284 g.) contg. NaCN and KCN (7:4) dried in vacuo at 100°, added at 150° to 430 g. LVI and held at 150° overnight, dild. with H₂O, and refluxed with 430 g. 50% NaOH gives 530 g. CH₂(CH₂CO₂Et)₂. γ-(3-pyrrolidinon-1-yl)butyric acid, prepd. in good yield from 200 g. LVI and 82 g. powd. KOCH heated at 200° until CO₂ evolution ceased, b. 202°. LVI (129 g.) and

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CS(NH₂)₂. Cl passed into 560 g. LVI at 190-200° until 400 g. have been absorbed (56 h.), gives 580 g. α,α'-dichloro-LVI, b. 127-30°, this, warmed with aq. NaOH gives HOCH₂CH₂CO₂Me, m. 67° (from ligroine); with aq. NH₃ it gives HOCH₂CH₂CO₂Me, m. 142° (from H₂O). LVI in an autoclave charged to 20 atm. with HCl, heated to 100°, and HCl added to const. pressure of 25-30 atm. gives 1100 g. Cl(CH₂)₂CO₂Me (LXII), b. 0.3 92-100°. LVI (500 g.) and 25 g. anhyd. ZnCl₂ in 1200 mL. MeOH satd. with HCl, then refluxed in an HCl stream give 400 g. LXII Me ester, b. 28 80-5°, and 300 g. of a mixt., b. 17 90-125° of Cl(CH₂)₂CO₂Me and Cl[(CH₂)₂CO₂]₂Me. Other esters of LXII prepd. similarly are: Et, b. 185°, b. 20 82-4° [and Cl[(CH₂)₂CO₂]₂Et, b. 30 175-80°]; Pr, b. 78-81°; and Bu, b. 16 110°. Cl[(CH₂)₂CO₂]₂Me (65 g.) from 682 g. LVI, 592 g. BuOH, and HCl 6 h. at 70-80°, b. 100-3°. Me CHCl₂CH₂CH₂CO₂Me, prepd. similarly from γ-valerolactone, b. 20 70-5°. LXII Et ester (450 g.), 440 g. Et₂NH, and 300 mL. EtOH heated 20 h. at 160° give 300 g. Et₂N(CH₂)₂CO₂Et, b. 14 98-103°. RR'N(CH₂)₂CO₂Et prepd. similarly are (R, R', and consts. given): Et, Et, Pr, b. 9 104-12°, b. 83-7° Ph, Bu, Et, b. 15 132-46°, cyclohexyl, cyclohexyl, Et, b. 167° (acid, m. approx. 109°). LXII Me ester (250 g.) and 82 g. powd. KOCH 12 h. at 160-70° give 2,4,6-trioxohexahydro-1,3,5-triazinetris-N-(γ-butyric acid Me ester), b. 1250-5°. CH₂CH₂CH₂CH₂CO₂Me (145 g. from 110 g. Cl passed into 450 g. LXII Me ester and 10 g. red P at 120°), b. 212-14°, b. 70 80-90°; it is also prepd. from LIX and alc. HCl. Cl(CH₂)₂CO₂Cl (100 g. from 86 g. LVI, 1 g. freshly fused ZnCl₂, and 136 g. SOCl₂ 24 h. at 60-70°), b. 12 72-80°; this (141 g.) and 15 g. red P heated to 120-30° and 35 g. Cl passed in give 130 g. CH₂CH₂CH₂CH₂CO₂Cl, b. 20 80-2° (acid, b. 24 138°); if 70 g. Cl is added, 97 g. CHCl₂CH₂CH₂CO₂Cl, b. 18 90-2°, is obtained. Further chlorination gives tetra- and pentachlorobutyl chlorides, b. 110-14° and b. 108°, resp. The corresponding acid chlorides refluxed in MeOH gave Me α,γ,γ-trichloro-, tetrachloro-, and pentachlorobutyrate, b. 87-90°, b. 88 90-101°, and b. 88 110-12°, resp. HO(CH₂)₂CO₂Na (125 g.) in 150 mL. 40% NaOH treated during 1.5 h. with three 60-g. portions of Me₂SO₄ with 50 mL. 40% NaOH added after each addn., warmed to 90°, stirred 1 h. at 50-60°, neutralized to weak alk., with H₂SO₄, washed with Et₂O, acidified to Congo red with H₂SO₄ and extd. with Et₂O give MeO(CH₂)₂CO₂Me, b. 103-5°. LVI (141 g.) and 73 g. Na in 600 mL. abs. alc. refluxed 24 h., evapd., the residue dissolved in H₂O, 175 mL. concd. HCl added, the mixt. extd. with Et₂O, the ext. evapd., the residue dissolved in 200 mL. H₂O, 100 mL. 40% NaOH added, the ext. extd. with Et₂O, and the aq. soln. acidified and extd. with Et₂O, give 60 g. EtO(CH₂)₂CO₂Me, b. 23 126-38°; Et ester, b. 16 78-80°. Other RO(CH₂)₂CO₂Me prepd. analogously from RONA and LVI are (R and consts. given): Bu, b. 20 137-80°; Ph, m. 64° (from ligroine), b. 12 180-5° (Me ester, b. 100-2°) (this, 300 g., in an equal amt. of cyclohexane with 30 g. Raney Ni at 180° 200 atm. gives Me γ-cyclohexyloxybutyrate, b. 102-5°; acid, b. 15 177°). p-O₂NC₆H₄, m. 128° (compd. is explosive); ketyl, b. 15 177°. 4,4'-CH₂(CH₂CO₂Et)₂ (CO₂H)₂, prepd. similarly, m. 176° (from BuOH). (CH₂OH)₂ (200 g.) and 70 g. NaOH distd. in vacuo, 86 g. LVI added at 200° during 2 h. to the residue, stirred 1 h. at 200°, distd. in vacuo, the residue dissolved in H₂O, 4 mL. 36% HCl added, evapd., the residue dried in vacuo at 150° over caustic, extd. with two 500-mL. portions of abs. alc., and the exts. concd. and anhyd. Et₂O added pptd. 85 g. HO(CH₂)₂CO₂Me; this, with 300 mL. 7% alc. HCl

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62 g. MeNH₂ heated 5 h. at 150° gives 160 g. HO(CH₂)₂CONHMe, b. 153-8°. HO(CH₂)₂CONH₂ prepd. similarly are (R and m.p. given): HOCH₂CH₂CH₂CH₂CO₂Me (LXIVa), 50°; Bu, b. 2 156°; m-C₆H₄, 78-9°; n-C₆H₁₃, 86-7°; oleyl, 63-4°; PhCH₂, 70-2° (from EtOAc). LVI and (CH₂NHCO)₂ give (CH₂NHCO)₂CO₂Me, m. 139° (from MeOH) (di-Ac deriv., m. 132°). H₂N(CH₂)₂Me gives HO(CH₂)₂CONH(CH₂)₂Me and HO(CH₂)₂CONH(CH₂)₂Me, m. 124° (from alc.). LVI (475 g.) and 120 g. NH₃ heated 8 h. at 230° give 430 g. 2-pyrrolidinone (LXV), b. 245°, b. 20 130°, b. 103°. N-Acyl-LXV prepd. are: Ac, b. 20 118°; EtCO, m. 76° (from ligroine), b. 12 112°; PrCO, b. 18 115°; Bz, m. 89°; p-O₂NC₆H₄CO, m. 140°; p-MeC₆H₄CO, m. 149°; 1-Me-LXV (300 g. from 344 g. LVI and 248 g. MeNH₂ 7 h. at 250°), m. 24°, b. 206°, b. 12 86-90°, b. 16 57-7°; HCl salt, m. 86-8° (from abs. alc.). 1-Substituted LXV similarly prepd. are: Et, b. 218°, b. 92-5°, b. 0.5 53-5° [Ba(OH)₂ gives EtNH(CH₂)₂CO₂Me, m. 123°]; HOCH₂CH₂, b. 140-3° (also prepd. from LXIVa at 250°) (SOCl₂ gives 1-ClCH₂CH₂-LXV, b. 14 134-7°); Pr, b. 23 117-20°; HO(CH₂)₂, b. 0.5 123-8°; iso-Pr, b. 25 110-15°; Bu, b. 13 118-20°, b. 0.5 80-5°; iso-Bu, b. 20 122°; iso-Am, b. 20 136-42°; isohexyl, b. 25 16-51°. m-C₆H₄, b. 174-5°; n-C₆H₁₃, b. 50 190-5°; oleyl, b. 0.5 170-90°; cyclohexyl, b. 0.5 94-7°; Ph, m. 67-8°, b. 0.2 123° [nitrated to the p-NO₂ deriv., m. 131° (from MeOH), which reduced to the p-NH₂ analog (LXVI), m. 127°]; [PhCH₂, b. 178-87° (p-NO₂ deriv., m. 101°)]; [p-NH₂ deriv., m. 131°]; o-MeC₆H₄, m. 47°, b. 130-2° [this oxidized with KMnO₄ gave o-(2-pyrrolidinon-1-yl)benzoic acid, m. 147°; nitration gives 1-(p-nitro-o-tolyl)-LXV, m. 84°, reduced to the amino deriv., m. 143°]; m-MeC₆H₄, m. 58°, b. 0.2 136° (p-NO₂ deriv., m. 90°; p-NH₂ deriv., m. 120°); m-ClC₆H₄, m. 66°, b. 0.7 143° (p-NO₂ deriv., m. 93°); α-naphthyl, m. 110-12°, b. 0.8 174-8° (from alc.); β-naphthyl, m. 125° (from C₆H₆-petr. ether); 7-hydroxy-1-naphthyl, m. 214° (from alc.); p-ACNH₂CO₂Me, 207-10° (from Me₂CO); o-HOC₆H₄ (LXVib), m. 131° (from alc.); m-HOC₆H₄ (LXVib), m. 203° (from alc.) (Me ether, m. 58° (from ligroine), b. 0.4 188°); p-HOC₆H₄ (LXVib), m. 162° (the Ac deriv., m. 117°, is nitrated to a mono-NO₂ deriv., m. 189°). LXVib (15 g.) in 120 mL. AcOH treated with 6 mL. 98% HNO₃, and then 18 mL. concd. H₂SO₄ gives 3(5)-NO₂-LXVib, m. 268° (from AcOH) (this with H at 50° and 200 atm. over Ni-Cr oxide gives the amine, m. 165°). With fuming HNO₃, LXVib gives the 3,5-dinitro deriv., m. 165°; Ac deriv., Cl₂H₁₀O₇N₃, m. 179° (from alc.). LXVib Me ether, b. 0.1 148-52° (prepd. from LXVib and Me₂SO₄, or from LVI and m-MeOC₆H₄CH₂ (96 g.) in 150 mL. concd. H₂SO₄ treated at -10° with 40 mL. concd. HNO₃ and 15 mL. concd. H₂SO₄ gives the 3(5)-NO₂ deriv., m. 144° (from alc.-H₂O), hydrogenated to the amine, m. 104° (from xylene). LXVib, nitrated like LXVib, gives the 4-NO₂ deriv., m. 141° (from alc.) [Ac deriv., m. 166° (from alc.)]; this reduced to the amine, m. 179° (from alc.). LXVib with fuming HNO₃ gives the 3,5-di-NO₂ deriv., m. 165° (from AcOH-alc.); Ac deriv., m. 165° (from alc.). LXVib Me ether, m. 115° (from ligroine), gives with H₂SO₄-HNO₃ at 5-10° the 3-NO₂ deriv., m. 123° (from alc.-H₂O), reduced to the amine, m. 108° (from xylene). LVI and diamines react under similar conditions to give H₂NH₂CO₂CH₂CH₂CH₂CH₂CO₂Me (LXVII) or CH₂CH₂CH₂CH₂CO₂Me (LXVIII), depending upon the molar ratio of the reactants. Comps. prepd.

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 ch2c2, b0.5 125-30° (m. 116°, b18 218-22°, b1.5 150-5°); HN(CH2CH2)2, no LXVII (b5 244-7°); (CH2)6, b19 205-12°, b0.2 132-7° (b3 240-6°, b0.1 218-25°); o-C6H4, m. 105-7° (from C6H6), b1 205-10° (m. 170-2° (from EtOAc or C6H6)); p,p'-C6H4C6H4 (N-Ac-LXVII, m. 265°) (LXVIII), m. (above 275°); 1,5-naphthylene, m. 161° (from C6H6) (no LXVIII). LVI (86 g.), 108 g. o-C6H4(NH2)2, 200 mL. concd. HCl, and 200 mL. H2O refluxed several hrs. give 2-γ-hydroxypropylbenzimidazole, m. 163°. Similarly, 2-(γ-hydroxypropyl)-5-methylbenzimidazole, m. 137° (from H2O), and 2-(γ-hydroxypropyl)naphthimidazole, m. 216°, are prepd. from 3,4-(H2N)2C6H3Me and 2,3-naphthylendiamine, resp. LVI (258 g.) and 324 g. o-C6H4(NH2)2 heated 7 h. at 270° give 144 g. 1,2-trimethylenebenzimidazole, m. 115° (from EtOAc), b0.2 130° [nitration gives a mono-NO2 deriv., m. 173°, which reduced to a diazotizable amine, m. 203° (from alc.), whose Ac, deriv. m. 266° (from alc.)]. 2,3-Naphthylendiamine analogously gives 1,2-trimethylene-1H-naphth[2,3]imidazole, m. 168-70° (from Tetralin) XLIX (142 g.) and 247 g. 1-β-chloroethyl-LXV heated 12 h. at 160° give 1-β-(1-pyrrolidinyl)ethyl-LXV, b43 181-4° LXVI sulfate (530 g.) in 250 mL. concd. H2SO4 and 500 mL. H2O diazotized with 190 g. NaNO2 in 500 mL. H2O, poured into 790 g. Na2SO3 in 3800 mL. H2O, 500 mL. concd. HCl added, left overnight, and heated with 500 mL. concd. HCl gives p-(2-pyrrolidinon-1-yl)phenylhydrazine-N'-sulfonic acid Na salt. 1-Methylol-LXV (230 g. from 340 g. LXV, 200 mL. 30% VIII, and

10 mL. concd. H2SO4 refluxed 4 h.), b4 185-8°. LXV (170 g.) refluxed 0.5 h. with 200 mL. 40% NaOH and 108 g. CH2=CHCN added at 20°, warmed to 40° after 12 h. and 20 mL. concd. HCl added after several days gives 100 g. NCH2CH2NH(CH2)3CO2H (LXIX), m. 136° (from MeOH) (Ac deriv., m. 129°); this at 150° gives 1-β-cyanoethyl-LXV, b1.5 148-51°, which with methanolic HCl gives Me β-(2-pyrrolidinon-1-yl)propionate, b25 175-85° (acid, b24 230-6°). N-β-Cyanoethyl-LXV (450 g.) and 400 mL. 20% alc. NH3 at 100°, 200 atm. H over 75 g. Raney Co give 170 g. CH2=CH2.NH.CN.CH2=CH2, b1-2 81-3° (picrate, m. 315° (decompn.)), and 60 g. 1-γ-amino-propyl-LXV, b1.5 121-4°. LXIX Na salt (95 g.) in 250 mL. MeOH, over Raney Co at 100° and 100 atm. H gives H2N(CH2)3N.(CH2)3CH2, b13 120-30°, picrate, m. 145°. LXV (34 g.) and 24 g. PhNCO, b13 180° give 32 g. PhNHC.ON.CO.CH2=CH2, m. 98°. Similarly, m-C6H4(NCO)2 gives m-C6H4(NHCO)2 (Q = 2-pyrrolidinon-1-yl), m. 190°, and OCN(CH2)6NCO gives (CH2)6(NHCO)2, m. 95° (from ligroine-C6H6); p-toluenesulfonyl isocyanate gives p-MeC6H4SO2NHCO, m. 153° (from MeOH-H2O). Bis(β-n-pyrrolidinylethyl) ether, m. 170 g. from 70 g. powd. Na in 500 mL. C6H6 treated at reflux, with intensive stirring, with 260

9. LXV, the C6H6 replaced with xylene, 200 g. (CH2ClCH2)2O added, and the mixt. refluxed 2-3 h.), b0.15 195-200°. LXV K salt (62 g.) in 400 mL. dry C6H6 and 68 g. ClCH2CO2Et refluxed 2 h., give 52 g. CH2=CH2.CO.NCH2CO2Et, b1-2 108-13° (acid, m. 143° (from MeOH)). 1-(β-Hydroxy-γ-ethoxypropyl)-LXV, from LXV Na salt and epichlorohydrin in EtOH, b2 139-42°. 1-(-2,4-Dinitrophenyl)-LXV (10 g. from 3.8 g. LXV and 20.2 g. 1,2,4-Cl3C6H3(NO2)2 in 120 mL. alc. refluxed 1 h. with 10 mL. 40% NaOH), m. 86° (from alc.). 1-β-Nitro benzoyl-LXV (230 g. from 83 g. LXV refluxed with 185 g. p-ONC6H4COCl,

250 mL. Me2CO and 80 g. C5H5N), m. 126° (from alc.). LXV (180 g.) heated 12 h. with 100 g. CaO in 700 mL. H2O, filtered, and the filtrate

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 concd. in vacuo gives [H2N(CH2)3CO2]2Ca, m. 193°; the acid (LXX) is prepd. from this with H2SO4 [LXX HCl salt, m. 133° (from alc.)]. 4-Substituted derivs. of LXX are: ACNH, m. 129°; succinimide, m. 104°; phthalimide, m. 118° (Bu ester, b24 262-7°) (saponid. to the phthalimide acid, m. 127°); ureido, m. 175° (from LXX and alkali cyanates). γ,γ'-Oxamidodibutyric acid, m. 215°. LXX (103 g.) and 700 mL. 5 N NaOH treated simultaneously with 107 g. PrSO2Cl and 200 mL. 5 N NaOH, and 50 mL. concd. H2SO4 added give 135 g. PrSO2NH(CH2)3CO2H, m. 86° (from C6H6). CH2(CH2SO2NH)(CH2)3CO2H [2] 185 g. from 230 g. LXX and 240 g. CH2(CH2SO2Cl)2], m. 176° (from H2O). LXX (206 g.), 400 mL. 30% VII, and 700 mL. 50% H2SO4 treated with 600 g. 34% NaCN soln. and stirred

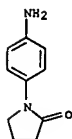
24 h. at 40° give 255 g. N,N-bis(cyanomethyl)-LXX, m. 108° (from H2O), saponid. to (HO2CCH2)2N(CH2)3CO2H (no const. given) with Ba(OH)2. 1-Me-LXV (233 g.) refluxed 3 h. with 500 g. Ba(OH)2 and 2400 mL. H2O give 1-Me-LXX (LXXI), m. 146°. N-Substituted LXX similarly prepd. from the corresponding 1-substituted LXV and aq. NaOH or Ba(OH)2 at temps. from reflux to 250° are: 1,2-ethylenbis, m. 185° (decompn.); hexamethylenbis, m. 216° (from alc.H2O) [bis(m-O2NC6H4CO) deriv., m. 185°; di-Et ester-2-HCl, m. 240°; Bu ester-2-HCl, m. 205°; bis(o-HO2CC6H4CO) deriv. (from phthalic anhydride), m. 145° (from alc.); bisnitroso compd., m. 120°]; Ph, m. about 55°; p-O2NC6H4, m. 186° (from MeOH) [reduced with H at 80° and 200 atm. over Ni-chromium oxide to N-(p-H2NC6H4)-LXX, m. 154-60° (from H2O)]; o-MeC6H4, m. 72-3° (from H2O); β-naphthyl, m. 101° (from C6H6-petr. ether). 1,4-Butanediol-LXX, from XLI and LXV K salt, m. 52° (from EtOAc). N-(p-H2NC6H4CO)-LXX prepd. in 73% yield from 250 g. N-(p-O2NC6H4CO)-LXX (from alkali and the LXV deriv.) hydrogenated in 1500 mL. H2O at 80° and 200 atm. over 30 g. Ni-chromium oxide, m. 114° (from H2O). LXV (100 g.) refluxed with 203 g. 1,2,4-Cl3C6H3(NO2)2, 400 mL. H2O, and 100 mL. 40% NaOH gives 120 g. N-[2,4-(NO2)2C6H3]-LXX, m. 142° (from MeOH), which (27 g.) stirred with 170 g. FeSO4 in 1 l. H2O and 150 mL. 20% aq. NH3, gives N-[2,4-H2N(NO2)2C6H3]-LXX. LXVI (117 g.) and 200 mL. 5 N NaOH treated at 0-5° with 130 g. ClCO2Et and 90 mL. 40% NaOH give 130 g. N-Me-N-carbethoxy-LXX, b16 195-200°; di-Et ester, b25 160-5°. Analogously, ClCH2CO2Et gives N-Me-N-carbethoxymethyl-LXX, and XLI gives N-Me-N-(4-chlorobutyl)-LXX, m. 196°. LVI (220 g.) and 220 g. powd. indolepotassium 10 h. at 200° gave 100 g. γ-N-indolebutyric acid, m. 70°, b2 180°. N-Carbazolebutyric acid, prepd. analogously, m. 150° (from alc.-H2O). γ-(N-p-Toluenesulfonamido)butyric acid (200 g. from 171 g. p-toluenesulfonamide added to 68 g. NaOEt, the salt sepd., dried, and heated 12 h. at 200° with 400 g. LVI), m. 131° (from H2O). Bu2N(CH2)3CONBu2 [238 g. from 86 g. LVI, 400 g. Bu2NH, and 13 g. (NH4)2SO4], b1 160°. γ-Cyclohexylaminobutyric acid cyclohexylamide, [59 g. from 205 g. γ-hydroxybutyric acid cyclohexylamide, 157 g. cyclohexylamine, 26 g. (NH4)2SO4, and 150 g. anhyd. Na2SO4 12 h. at 180°], b1.2 180-3°. γ-(1-Pyrrolidinyl)butyric acid pyridide [120 g. from 164 g. LXII Fr ester, 142 g. XLI, and 140 mL. PrOH heated 20 h. at 160°, b9 182-4°], b1 135-41°. Ph(CH2)3CO2H (LXXII), 115 g. from 200 g. AlCl3 in 400 mL. C6H6 treated at 50-5° with 86 g. LVI, excess C6H6 distd. after HCl evolution ceased, and the residue decompd. with ice, b20 175°, m. 51° (from H2O) (acid chloride, b12 140°;

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 anhydride, m. 46-8°. The distn. residues contained a mixt. of m- and p-γ,γ'-phenylenedibutyric acid from which the p-compd., m. 128° (di-Me ester, b1 155°; di-Bu ester, b1 171°) is isolated by soln. alkali, fractional pptn. with acid, and recrystn. from ligroine. LXXII (100 g.) in 300 mL. Ac2O and 44.5 mL. HNO3 (d.

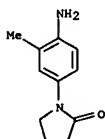
1.42) at 20-40° gives the p- and o-NO2 deriva., m. 95° and 55-7°, resp. The p-NO2 deriv. hydrogenated over Pd-CaCO3 gives p-H2NC6H4(CH2)3CO2H, m. 127° (from C6H6). LXXII (340 g.) passed at 270° over C satd. with H3PO4 gave 210 g. α-tetralone, b20 138°. LXXII (33 g.) in 100 mL. concd. H2SO4 treated at 20° with 14 mL. HNO3 (d. 1.42) and 14 mL. concd. H2SO4 gives 7-nitro-2-tetralone, m. 105° (from alc.). This, hydrogenated over Pd-CaCO3 gives the amine, m. 137°. γ-Substituted butyric acids prepd. like LXXII are: p-ClC6H4, m. 78° (from ligroine), b. 181-4°; tolyl (mixed o- and p-isomers), b1 140-50°; and p-EtC6H4, m. 68° [this (122 g.) in 400 mL. MeOH satd. with 60 g. HCl and the crude ester hydrogenated, then saponid. gives 84 g. γ-(4-ethylcyclohexyl)butyric acid, b1 135-7°]. LIVA, 150 g., in 900 mL. C6H6 treated during 2 h. at room temp. with 225 g. AlCl3 in 9 portions, warmed 4 h. to 60°, decompd. with HCl after standing overnight, and stms. distd. gives PhCO(CH2)2CO2H (LXXIII), m. 115°, Me ester, b1 122-5°, Et ester, b1 127-8°; redn. of the esters gives γ-Ph-LVI. LXXIII, 240 g. in 1 l. 20% NH3 hydrogenated over 50 g. Ni-chromium oxide at 150°, 50 atm. gives 130 g. γ-amino-LXXII, m. 73° (from alc.); this on heating to 130-40° gives γ-Ph-LXV, m. 108°, which is nitrated to the p-NO2 deriv., m. 139° (from alc.); this is reduced to γ-p-H2NC6H4-LXV, m. 180-2° (from alc.). p-EtC6H4CO(CH2)2CO2H (LXXIV) (no const.) is prepd. like LXXIII from PhEt and LIVA; this, 296 g. crude, in 1 l. 10% Na2CO3 hydrogenated over 20 g. Ni-chromium oxide at 170°, 200 atm. gives p-EtC6H4(CH2)3CO2H, m. 68°; hydrogenation in Decalin at 240-50° gave 7-ethyl-1-decalone, b0.25 218-26°. RCO(CH2)2CO2H prepd. and hydrogenated to R(CH2)3CO2H analogously are [R, m.p. of RCO(CH2)2CO2H, and m.p. R(CH2)3CO2H]: p-MeC6H4, 127°, -; p-iso-PrC6H4, 137°, 86° (Et ester, b0.15 138-142°); p-PhC6H4, 185° (from xylene), 115°; p-cyclohexylphenyl, 130° (from alc.), 48° (b0.2 193-5°); diphenyleneoxide (C16H12O4), 179-80° (from AcOH), 109° (from C6H6-ligroine) (Et ester, b0.2-0.3 188-92°); tetrahydro-2-naphthyl (from Tetralin and LIVA), 123° (from C6H6-ligroine), 49° (b0.2 180-4°); and 3-acenaphthyl, 153-5° (from AcOH), 149° (from decalin) (this compd. is prepd. from the oxo acid by hydrogenation at 100°; hydrogenation at 200° gives Cl6H20O2, m. 98° (from ligroine), b0.7 205-11°). p-MeO-LXXIII, prepd. like LXXIII from PhOMe and LIVA, m. 147° (from alc.-H2O); redn. in the presence of NH3 gives γ-p-MeOC6H4-LXV, m. 133°; γ-4,3,5-MeO(H2N)2C6H3-LXV, m. 178° (from MeOH-H2O); γ-4,3,5-MeO(H2N)2C6H3-LXV, m. 180°.

IT 13691-22-0, 2-Pyrrolidinone, 1-(p-aminophenyl)- 13691-27-5
 2-Pyrrolidinone, 1-[4-amino-m-tolyl]- 13691-28-7,
 2-Pyrrolidinone, 1-[4-amino-o-tolyl]- 858234-07-4,
 2-Pyrrolidinone, 1-(4-amino-3-hydroxyphenyl)-
 (preparation of)
 RN 13691-22-0 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

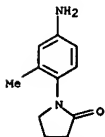
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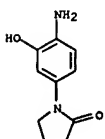
RN 13691-27-5 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



RN 13691-29-7 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-o-tolyl)- (8CI) (CA INDEX NAME)



RN 858234-07-4 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-3-hydroxyphenyl)- (5CI) (CA INDEX NAME)



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stream of NH₃ gas, and extd. with Et₂O, and the ext. evapd. gives 100 g. XXXVI urethane (C₅H₉NO₃), m. 91° (from C₆H₆). PhNH₂ and XXXVII give the N-Ph urethane, m. 112°, and H₂N(CH₂)₆NH₂ gives N,N'-hexamethylenebis(tetrahydro-3-furyl urethane), m. 113°. XXXVI (176 g.), 1 g. Na, and 125 g. CH₂:CHCN give β-(tetrahydro-3-furyloxy)propionitrile, b₂ 108-10°. HOCH₂CH₂(CH(OH))₂Me and concd. H₂SO₄ at 150° give 1-methyl-4-hydroxy-XIIa, b. 183°, b₂ 20 90-1°. 2,3-Dichloro-XIIa (XXXVIII), b₂ 62° (1200 g.) is prep'd. by passing Cl into 500 g. XIIa at 0-10° 60 h.; 500 g. 2-(4-chlorobutoxy)-3-chloro-XIIa (XXXIX), b₂ 145-55°, is also formed. XXXVIII (75%) and XXXIX (25%) are also prep'd. by passing XIIa and Cl dild. with H over glass beads at 100°; XXXIX is prep'd. in quant. yield by passing HCl into 156 g. XIIa and 280 g. XXXVIII at 20-30° (for in 330 g. yield from 200 g. XXXVIII and 180 g. Cl(CH₂)₄OH 2 h. at 100°). XXXVIII (1 kg.) chlorinated several days at 100° gives 890 g. b₂ 7-30 120-4°, 1200 g. b₂ 8 140-2°, and hexachloro XIIa isolated from the mixt. m. 40°. XXXVIII (300 g.), warmed with 500 mL. H₂O and 250 g. CaCO₃ gives 97 g. 2-hydroxy-3-chloro-XIIa (YOH) (XL), b₂ 92-5°, and 32 g. Y₂O, b₂ 0.6 106°. The following ethers are prep'd. from XXXVIII and ROH at 100°: YOME, b. 150°, b₂ 50-1°; YOEt, b₂ 60-2°; YOBU, b₂ 86-8°; YOCl₂H₂S-n, b₂ 12 166-7°; YOCH₂CH₂OH, b₂ 127-30°; (YOCH₂)₂, b₂ 140-5°; the IX YOCH₂C.tplbond.CCH₂OH, b₂ 5 135°; (YOCH₂C.tplbond.)₂, b₂ 0.8 168-9°; YOCH(CH₂OY)₂, b₂ 0.4 205°; YOCH₂CH(OY)CH₂CH₂OY, b₂ 150-80°. Other YR prep'd. from XXXVIII (R, yield, wt. XXXVIII, wt. other reagent, and conditions given): ACO (b₂ 5 110-15°), 200 g., 420 g., 181 g. ACOH, refluxed 1 h.; NaO₃S, 380 g., 280 g., 500 g. cryst. Na₂SO₃ in H₂O; cyano (b₂ 1 97-9°), -, 140 g. and 120 g. CuCN at 100° [concd. H₂SO₄ give the acid, m. 91° (Et ester, b₂ 100-6°)]; Ph (b₂ 10 123-32°), 154 g., 280 g., 1 l. C₆H₆ treated several hrs. at 5-10° with BF₃; 1-naphthyl (b₂ 5 171-3°), 1 l. C₆H₆ treated several hrs. with AlCl₃. XXXVIII (141 g.), and 76 g. (NH₂)₂CS in 400 mL. H₂O refluxed 4 h. and neutralized with 1100 g. 40% NaOH give 110 g. 2-amino-5-(2-hydroxyethyl)thiazole, m. 98.5° (from C₆H₆); mono-HCl salt, m. 227°; mono-Ac deriv., m. 209°, di-Ac deriv., m. 163-4°. Urea gives a low yield of 2-amino-5-(2-hydroxyethyl)thiazole, m. 132-3° (from alc.); mono-HCl salt, m. 207° (from AcOH). XIIa satd. in the cold with HCl every 12 h. for 48 h., shaken with H₂O, and neutralized, gives HO(CH₂)₄Cl, b₂ 76-8°, also prep'd. from (CH₂CH₂OH)₂ and HCl at 80° with 5% BiCl₃-SiO₂. Cl(CH₂)₄Cl (XLI), b₂ 55-6° (560 g.), is prep'd. from 360 g. XIIa, 10 g. anhyd. ZnCl₂, and 650 g. SOCl₂ at 130°; it is also prep'd. from XIIa and anhyd. HCl 5 h. at 150° or from XIIa, concd. H₂SO₄, and concd. HCl in 4 h. at 170°. XIIa (870 g.), 60 g. concd. H₂SO₄, and 750 g. SOCl₂ kept 15 h. at 65-85° and another 100 g. SOCl₂ added at 100-10° give 970 g. O(CH₂)₄Cl₂, b₂ 125-8°. A similar reaction at 100°, 72 h. gives some [Cl(CH₂)₄OCH₂CH₂]₂, b₂ 0.6144-7°. The following compds. are prep'd. in generally lower yield from the corresponding monosubstituted XIIa by reactions analogous to the foregoing: ClCH₂CH(OEt)CH₂CH₂Cl, b₂ 65-80°, and 4,4'-dichlorodimethoxydibutyl ether, b₂ 0.1 140-5°; ClCH₂CH(OMe)CH₂CH₂Cl, b₂ 5 67°, and 4,4'-dichlorodimethoxydibutyl ether; Cl(CH₂)₃CHClMe, b₂ 53-4°, and (MeCHClCH₂CH₂CH₂)₂O, b₂ 125-40°; ClCH₂CHMeCH₂CH₂Cl, b₂ 9 46-66°, and 4,4'-dichlorodimethoxydibutyl ether, b₂ 10 125-38°. Similarly XXI gives (MeCHClCH₂)₂, b. 170-2°. Tetrahydropyran (172 g.), 20 g. anhyd. ZnCl₂, and 300 g. SOCl₂ refluxed 42 h. give 167 g. Cl(CH₂)₅Cl, b₂ 75-6°. XXXVa (280 g.), 15 g. anhyd. ZnCl₂, and 540 g. SOCl₂ 7 h.

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ACCESSION NUMBER: 1956:89209 CAPLUS
DOCUMENT NUMBER: 50:89209
ORIGINAL REFERENCE NO.:
50:16777d-i,16778a-i,16779a-i,16780a-i,16781a-i,16782a-i,16783a-b
TITLE: Ethynylation. V. Reactions of hydrated ethynylation products. Dehydration of γ-alkanediols
AUTHOR(S): Reppe, Walter; et al.
SOURCE: Ann. (1955), 596, 80-158
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 50:89209
AB XIIa is prepared in quant. yield from 1 kg. (HOCH₂CH₂)₂ stirred and heated to 165° with 100 g. 80% H₃PO₄, with fresh IX added and the temperature raised slowly to 185° as product distilled, and the distillate dried over K₂CO₃ and redistd., b. 65-7°, d₂₀ 0.8886, n_D20 1.4065; azeotrope containing 5.5% H₂O b. 66°. XIIa is also prepared from IX with p-MeC₆H₄SO₃H, (CO₂H)₂, (CH₂CO₂H)₂, maleic anhydride, or resorcinol-(HO₃)₂C₆H₃CHOCH₂O resin as catalyst, by heating 35% aqueous IX with H₃PO₄ and NH₄Cl in an autoclave to 280° 10 h., or from 25 g. IX passed over 325 g. precipitated and calcined Cr₂O₃ at 300-25° or CaHPO₄ at 300°. Dehydration of the corresponding R₁R₂C(OH)CH₂CH₂C(OH)R₃R₄ gives the following cyclic ethers (R₁, R₂, R₃, R₄, and catalyst given): Me, H, H, H (XXXV), H₃PO₄-H₂SO₄, 78-9°; Me, H, Me, H, K₂S₂O₇, 91.5° (azeotrope containing 13% H₂O, b. 78°), forms with ferrocyanic acid an H₂O-insol., colorless, crystalline adduct; Me, Me, Me, H₃PO₄ or K₂S₂O₇, b. 114-17°. 1,1'-Ethylene-dicyclohexanol (120 g.) gives, with 2 mL. 25% H₂SO₄ in vacuo at 150°, 85 g. 2,2',5,5'-bis(pentamethylene)-XIIa, b₂ 93-5°. (CH₂:CH)₂ is prepared by passing 20-5 g. IX and 4-5 g. H₂O/h. at 300-50° over 300 mL. catalyst prepared by mixing 100 g. anhydrous NaH₂PO₄ with 40 mL. H₂O, adding 8 g. BuH₂PO₄ and 20 g. graphite, evaporating with continuous stirring, heating finally to 160°, and breaking to suitable size. The same catalyst, with 98% H₃PO₄ instead of Bu phosphate, gave 90% (CH₂:CH)₂ from XIIa at 280°; 1800 g. XXXV gives 510 g. MeCH:CHCH:CH₂, b. 40°, and 720 g. recovered XXXV. [MeCH(OH)CH₂]₂ (500 g./day), passed at 280-300° over catalyst prepared by adding 125 g. Al(OH)₃ to 700 mL. H₂O and 700 g. 90% H₃PO₄, stirring 2-3 h. at 110-15°, adding 185 g. NaH₂PO₄ and 43 g. BuNH₂, cooling, adding 320 g. 34.4% water glass, ball milling, evaporating 38° in vacuo at 260°, and crushing, gives 240 g. (MeCH:CH)₂, b. 77-8°. 2,5-Dihydrofuran (17 g.), prepared from 50 g. XXV and 2 g. 20% H₂SO₄ at 125-30° and 18 mm., b. 63.5° (forms azeotrope containing 7.5% H₂O). XXV is also dehydrated by (CO₂H)₂ at 170°, by passing in HCl at 140° or by passing it over Al₂O₃ at 240-50°. 2,5-di-Me-XXXVa, b. 90-3°, and 2,2',5,5'-bis(pentamethylene)dihydrofuran, b₂ 123-5°, are prepared similarly. 1,2,4-Butanetriol (300 g.) and 10 mL. concentrated H₂SO₄ at 30 mm. and 100-15° treated with an addnl. 1500 g. triol and distilled during 36 h. give 1350 g. 3-HO-XIIa (XXXVI), b₂ 740 183°, b₂ 93-5°; acetate, b₂ 64°. XXXVI (88 g.) added at -5° to 108 g. COCl₂, warmed to 20° in 1 h., and swept with dry air, the residual chloroformate (XXXVII) treated with 100 mL. NH₄OH at 20-40°, then a

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at 80-5° give 100 g. (ClCH₂CH₂)₂ (XLI), b₂ 48-51°, b. 145°, better prep'd. (410-g. yield) from 320 g. XXV refluxed with an equal amt. of (CH₂Cl)₂ or C₆H₆ in an HCl stream with azeotropic distn. of H₂O; at 0°, mostly ClCH₂CH₂CHClCH₂OH, b₂ 10 75-6°, is formed. Substitution of HBr for HCl in the corresponding reaction gives Br(CH₂)₄Br, b₂ 3 90-3°; Br(CH₂)₅Br, b₂ 104-5°; and (BrCH₂CH₂)₂, b₂ 14 74-6°, m. 54°. XIIa (72 g.), 148 g. BuOH, and 13 g. concd. H₂SO₄ heated 5 h. at 155° give 46 g. (BuOCH₂CH₂)₂, b₂ 116-20°. XIIa (148 g.), contg. some Zn, treated with 158 g. AcCl gives 500 g. Cl(CH₂)₄OAc, b₂ 90-2°. Other Cl(CH₂)₄O₂C prep'd. analogously, using Zn or ZnCl₂ are (R and const. given): ClCH₂, b₂ 124°; Br, b₂ 116-18°; Ph, b₂ 176-8°; p-O₂NC₆H₄, b₂ 7 167-70°, m. 38°; p-H₃CO₃C₆H₄, b₂ 90-3°; Cl, b₂ 90° [Cl(CH₂)₄O₂CNH₂, m. 77° (from alc. alc.); (CH₂NHCO₂(CH₂)₄Cl)₂, m. 104° (from MeOH); (CH₂CH₂CH₂NHCO₂(CH₂)₄Cl)₂, m. 94° (from MeOH). o-C₆H₄(COCl)₂ (203 g.), 144 g. XIIa, and Zn give 250 g. o-C₆H₄(CO₂(CH₂)₄Cl)₂. Similarly XXXVIII gives ClCH₂CH₂CHClCHClOAc, b₂ 154-8°, and XXXV gives MeCHCl(CH₂)₃OAc, b₂ 92-5°. XXXV (172 g.) and 230 g. Ac₂O heated 12 h. at 240° in a Cu-lined autoclave give 110 g. AcOCHMe(CH₂)₃OAc, b₂ 123-6°, in a tube at 240° the product is pentenyl acetate, b. 145-50°, this is hydrolyzed to a 1:1 mixt. (shown by KMnO₄ oxidn.) of 3- and 4-penten-1-ol, b. 140-1°. Tetrahydrofurfuryl alc., AcCl, Zn dust, and C₆H₆ give a diacetate, b₂ 158-60°, either AcOCH₂CH(OAc)(CH₂)₃CH₂Cl or AcOCH₂CHCl(CH₂)₃CH₂OAc; XXXVa similarly gives ClCH₂CH:CHCH₂OAc, b₂ 92-4°. A mixt. of 3 mol HCN and 1 mol XIIa passed at 40 mL/h. over Al₂O₃ at 425° gives product contg. (mol. %): 13 XIIa, 38 CH₂:CHCH₂CH₂CN, b. 140-2°, 26 C₃H₅SH, and 9 neutral and 12 basic high boiling fractions. XLI (650 g.), 83 g. PCl₃, and 17 g. red P chlorinated at 120-60° and irradiated with a 500-w. light gives CH₂ClCHClCH₂CH₂Cl, b₂ 74°, CH₂ClCHClCH₂CH₂CH₂Cl, b₂ 86-8°, CH₂ClCHClCHClCH₂CH₂Cl, b₂ 102°, (CH₂ClCHCl)₂, b₂ 115°, and CHCl₂CHCl₂CHCl₂CH₂Cl, b₂ 125°. PhOH (188 g.) and 83 g. NaOH heated to 150° and 127 g. XLI added give, after 1 h., 120 g. PhO(CH₂)₄OPh, m. 97-8° (from alc.). XLI (380 g.), 700 mL. BuOH, and 200 g. KCN at 100-20° give 140 g. unchanged XLI, 42 g. NC(CH₂)₄CN (XLIII), and 140 g. CH₂Cl(CH₂)₃CN (XLIV), b₂ 100-3°. Comps. prep'd. from XLIV are (reagents, time, in parentheses): δ-Valerolactone, b₂ 110-15° (hydrazide, C₅H₁₂N₂O₂, m. 107°), and its polymer (H₂O, 4 h., 180°); piperidine (NH₃, Raney Co, and H, 6 h. at 70°, 100 atm.); piperidone together with N-4-cyanobutylpiperidone, b₂ 200-15° (NH₃ at 70-120° in an autoclave, low yield); Et₂N(CH₂)₄CN, b₂ 130-5° (Et₂NH 6-10 h. at 100-20°); Et₂N(CH₂)₅NH₂, b₂ 103-5° (Et₂NH and Raney Co under N 6-8 h. at 120°, then H at 100 atm.); BuNH(CH₂)₅NH₂, b₂ 165-8° (BuNH₂ under N 4 h. at 100-10°, then Raney Co and H at 80-100°, 200 atm.); PhNH(CH₂)₄CN, b₂ 155-65° (PhNH₂ overnight at 110°), this with Raney Co and H at 100°, 200 atm. gives PhNH(CH₂)₅NH₂, b₂ 133-5°; o-MeC₆H₄SO₂NH(CH₂)₄CN, b₂ 10 296-8° (procedure not given); and cyclobutyl cyanide, b. 149°, b₂ 55° (NaOH refluxing with NaNH₂ in dry Et₂O; this with 50% NaOH gives the acid, b. 190-1°). δ-Valerolactone (250 g.) and 100 g. NaCN heated to 230°, the melt cooled and dissolved in H₂O after the reaction subsided, and the soln. decolorized with C, acidified, and extd. with Et₂O gives 120 g. NC(CH₂)₄CO₂H, b₂ 162-70°; the Et ester, b₂ 145-50°, gives with alc. NH₃, Raney Co, and 200 atm. H at 130° e-caprolactam, m. 65°, b₂ 140-2°. XLIII (720 g.), 720 g. dry NaCN, 30 g. CaCO₃, and 5 g. NaHCO₃ heated to

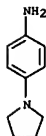
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160°, 800 g. XLI added so that the temp. remained at 180-200°, and the mixt. heated another 2 h. give 600 g. newly formed XLIII. NH₂(CH₂)₅CN, b₁₀ 106° (Bz deriv., m. 96-7°), (200 g.) is prep'd. from 440 g. XLIII, 130 g. NH₃, and 30 g. Raney Ni under
20 atm. H at 130°; at 120-40° and 120-50 atm., the product is H₂N(CH₂)₆NH₂, b₁₀ 81.5°, m. 45-6° (N,N'-diformyl deriv., m. 112°; N,N'-di-ac deriv., m. 127°). XLI (126 g.) added at 80-5° to 150 g. anhyd. Na₂S in 340 g. H₂O and 100 mL. alc. and stirred 18 h. at this temp. gives 44 g. tetrahydrothiophene, b. 119-22°. O[(CH₂)₄Cl]₂ prep'd. from O[(CH₂)₄Cl]₂ are (R, const., reagents, and conditions given in parentheses): OH, b₁ 150-5° (8% Na₂CO₃ 2 h. at 150°) (diacetate, b₂ 139-40°); HCO₂, b₀ 8 120-30° (aq. alc. NaO₂CH 2 h. at 140°); SH, b₀ 6 113° (aq. Na₂S, sat'd. with H₂S, 10 h. at 145°); NH₂, b₁ 4 105-8° (large excess NH₃, alc., and alkali earth oxide a short time at 100-20°); cyano, b₁ 172-6° (aq. alc. NaCN 5 h. at 130°) (hydrogenation gives O[(CH₂)₂SNH₂]₂, b₁ 137-8°). [HO(CH₂)₄IO₂ (720 g.), or (CH₂)₂CH₂OH]₂, and 240 g. NaOH heated to 180°, 600 g. O[(CH₂)₄Cl]₂ added, the mixt. stirred 5 h., dist'd. with H₂O, neutralized, and the oil dist'd. to about 250°/5 mm. gives 700 g. residual dihydroxypropylbutyl ether, HO no. 170; (CH₂)₂CH₂OH]₂ and O[(CH₂)₄Cl]₂ give a similar product. Longer heating gives higher-mol.-wt. products. O[(CH₂)₄Cl]₂ in anhyd. C₆H₆ treated with Na at 100-5° (cooling) gives H[O(CH₂)₈]XOH; 50 g. of this, added to 200 g. 65% HNO₃ at 50-5° give HO₂C(CH₂)₆CO₂H, m. 138°. XLII (560 g.) treated during 6 h. with 390 g. Cl at -10° gives 664 g. CH₂ClCHClCH₂Cl₂Me, b. 203-6°, b₁₈ 92-3°, and 110 g. (CH₂Cl)CHCl₂ (XIV), m. 79° (from ligroine), b₅₀ 130-40°. XLII (250 g.) and 10 g. Bz₂O₂ heated to 80°, 550 g. SO₂Cl₂ added, and the mixt. warmed 3 h. at 80-100° give 140 g. XLV, 170 g. CH₂ClCCl₂CH₂CH₂Cl, b₈ 86-8°, and 35 g. pentachlorobutane, b₇ 102°. (CH₂)₂CH₂OH]₂ prep'd. by refluxing XLII and NaOH or KOH in ROH are (R given): Me, b₁ 141°; Et, b₁ 61-3°; iso-Pr, b₁ 80-2°; CH₂CH₂CH₂, b₂ 106°; Bu, b₁ 128°; Ph, b₁ 175° (decomp.); MeC₆H₄, b₀ 4 170-6°; cyclohexyl, b₁ 160°; PhCH₂, b₁ 137-5°; tetrahydro-3-furyl, b₂ 148°; tetrahydrofuryl, b₂ 150°. The bis-MeOCH₂CH₂ ether, b₃ 105-6°, and the bis-BuOCH₂CH₂ ether, b₂ 148-50°, are prep'd. similarly. XXV (500 g.) treated with 160 g. powd. NaOH (cooling), 70 mL. H₂O dist'd. in vacuo, 250 g. XLII added slowly with stirring at 110-20° and the temp. held 2 h. gives viscous, nondistillable, H₂O-sol. tri(butenediol), HO no. 480; diacetate, C₁₆H₂₄O₆, b₁ 178-82°. XLII (500 g.) added to 420 g. XXV and 350 g. NaOH refluxing in 900 g. XIIa 2 h., the solvent dist'd., and the residue allowed to crystallize gives XXV cyclic diether, C₈H₁₂O₂, m. 117°, b. 184°; hydrogenation over Pd at 120° gives the sat'd. cyclic diether, C₈H₁₆O₂, b. 183-5°. (CH₂)₂CH₂OH]₂ prep'd. from XLII were (R and reagents, and conditions in parentheses given): morpholine, b₀ 9-1 141-2° (morpholine 1 h. at 100°); 1-pyrrolidinyl, b₀ 5 98-105° (pyrrolidine several hrs. at 100-100°); 2-benzothiazolylthio, m. 86° (from alc.) (2-mercaptobenzothiazole and NaOH in XIIa); NaO₃S, no const. (aq. Na₂SO₃ 7 h. in H₂O bath); and CN, b₁ 150-00°, m. 76° (from alc.) (alc. NaCN refluxed 5 h.). The latter compd. decomp. somewhat when the crude is dist'd., even in the presence of methylene blue. XLI (500 g.) added with stirring at room temp. during 8 h. to 700 mL. C₆H₆ and 80 g. anhyd. AlCl₃ and heated to 80° until HCl evolution ceases gives 10 g. tetrahydronaphthalene, b₀ 3 45°, 20 g. Ph(CH₂)₄Ph, b₀ 2

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70-85°, 60 g. of a mixt. (b₀ 2 85-100°) of octahydroanthracene and -phenanthrene, 25 g. octahydro-anthracene, m. 70°, b₀ 2 100-30° (this with K₂Cr₂O₇ gives pyromellitic acid), and, from the residue, 68 g. dodecahydrotetraphenylene (XLVI). XLVI (460 g.)
from 950 g. XLI and 500 mL. C₆H₆ treated with 500 g. anhyd. AlCl₃ during 48 h. below 20° m. 239° (from PhCl), fluoresces blue-white in UV light. Similarly prep'd. in low yield are: from PhMe, a mixt., b₁ 140-5°, of 9-methyl-1,2,3,4,5,6,7,8-octahydroanthracene and 9-methyl-1,2,3,4,5,6,7,8-tetrahydronaphthalene; from m-C₆H₄Me₂, dimethyltetrahydronaphthalene, b₀ 25 86-7° (dehydrogenation over ZnO gives dimethylnaphthalene; picrate, m. 118-19°), and C₁₆H₂₂, b₀ 3 156°, m. 132° (dehydrogenation gives anthracene and a hydrocarbon, m. 87°); from C₁₀H₈ a mixt. (b₁ 100-20°) of tetrahydroanthracene and -phenanthrene and some (4-chlorobutyl)naphthalene, b₁ 140-50°; from Ph₂ a resin. m-C₆H₄Me₂ (212 g.), 230 g. CH₂Br(CH₂)₂CH₂Br, and 45 g. AlCl₃ at 90-100° give 130 g. of a mixt. (b₁ 90-130°) of (apparently) 1,5,7- and 4,5,7-trimethyltetrahydronaphthalene. C₆H₆ (312 g.), 20 g. AlCl₃, and
35 g. XLII give 32 g. hexahydrotetraphenylene. A polymeric oxo acid is prep'd. from xylene, AlCl₃, XLI, and phthalic anhydride. Naphthalene (1500 g.), 570 mL. XIIa, 20 g. CoI₂, and 3 mL. AcOH heated 6 h. at 280-90° under 100 atm. CO gave phenanthrene, m. 100° (picrate, m. 145°), and fractions, b₁ 95-123° (contg. C₁₄H₁₆, and C₁₄H₁₂; isolated chromatog. on Al₂O₃, and not further characterized), b₁ 141-2° (probably dinaphthylbutyl ether, C₂₈H₃₀O), and b₁ 247-60° (naphthylbutanol, C₁₄H₁₆O). A mixt. of 720 g. 70% CH₂CH₂CH₂OH and 870 g. 35% H₂O₂ added to 100 mL. 0.5% OsO₄ (pH adjusted with acid to 3-4), with simultaneous addn. of KOH to hold the pH at 3.5-3.75 gives glycerol in 90% yield. meso-Erythritol, prep'd. similarly, m. 120° (from MeOH). Cl (100 g.) added to 140 g. 70% CH₂CH₂CH₂OH in 860 mL. H₂O at 10-20°, the mixt. stirred overnight, excess Cl swept out with air, 500 mL. 13% Na₂CO₃ added, and the mixt. evap'd. gives 100 g. HOCH₂CH(OH)₂Me, b₁ 140-2°. dl-Erythritol (dibenzal deriv., m. 218-19°) is prep'd. similarly from HOCH₂CH(OH)CH₂CH₂OH, b₁ 5 145° (decomp.); this, with 30% H₂SO₄ gave 3,4-dihydroxy-XIIa, b₄ 121-2°. XXXVa chlorinated in CCl₄ at 10° gives 3,4-dichloro-XIIa, b₄ 59-61°. HgO (135 g.) in 500 mL. H₂O treated with 85 g. Cl with cooling, the mixt. filtered and dist'd. in vacuo, and
35 g. XXXVa added with cooling to the distillate (which contained HOCl) gives
36 g. 3-chloro-4-hydroxy-XIIa, b₄ 102-3°; this (60 g.) added in vacuo to vapors of C₆H₆ and the residue cooled and redist'd. gives 24 g. 3,4-oxido-XIIa (XLVII), b. 143°, b₄ 45°. XLVII, ROH, and Al₂O₃ at 100° gave monoesters of 3,4-dihydroxy-XIIa (R and const. given): H, b₁ 163°; Me, b₁ 107°; Et, b₁ 112°; Bu, b₁ 134°; HO(CH₂)₄, b₁ 201°; Ph, b₀ 5 131°; PhCH₂, b₀ 6 162°; 2,5-dimethyl-3-hydroxy-4-methoxy-XIIa, b₁₀ 102°. XLVII (86 g.) cooled and 400 g. 25% NH₃ added gives 3-hydroxy-4-amino-XIIa, b₁ 142°, m. 78°. Amino deriva. prep'd. from XLVII and R₂NH₂ at 200° are (R₁ and R₂ given): octadecyl, H, b₀ 5 205°; Ph, H, m. 105° (from ligroine); Ph, Me, m. 63-4°, b₂ 5 175°; pyrrolidine, b₁ 153°. XXV bis(tetrahydro-3-furyl) ether, b₂ 145-50°, and 71 g. Cl added simultaneously at 15-20° during 2 h. to 2300 mL. H₂O give 284 g. crude chlorohydrin which, added to 74 g. powd. Ca(OH)₂ in 500 mL. H₂O, gives 150 g. 2,3-oxido-1,4-butylene bis(tetrahydro-3-furyl) ether, b₁ 162-70°. XXV (665 g.), treated at 5-10° with 247

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heated 12 h. at 190° gives 50 g. 3-hydroxy-L, b₁ 138-44°; 1-m-tolyl-2-hydroxy-XLIX prep'd. similarly from m-MeC₆H₄NH₂, b₀ 7-0.5 131-40°; 2-methyl-L, 100 g. from 172 g. XXV, 230 g. PhNH₂, and 30 g. fullers earth 12 h. at 270°, b₁ 125-35°. XLIX (93 g. 90%), 65 g. m-MeC₆H₄OH, 60 mL. conc'd. HCl, and 200 mL. H₂O 12 h. at 160° give 50 g. 1-(m-hydroxy)-L, m. 128°; 1-β-naphthyl-XLIX, m. 92°, 250 g. from 216 g. β-naphthol, 200 g. XLIX, and 20 g. fullers earth 6 h. at 200°; 2,6-di(1-pyrrolidinyl)naphthalene, m. 240°, was prep'd. similarly, in 90 g. yield from 70 g. 2,6-dihydroxynaphthalene and 80 g. XLIX. Ethylene oxide (246 g.) passed at below 50° into 355 g. XLIX and warmed 1 h. at 50° gives 213 g. 1-(2-hydroxyethyl)-XLIX, b₁ 57-62°, 102 g. 1-[2-(2-hydroxyethoxy)ethyl]-XLIX, b₁ 92-4°, and 29 g. 2-(2-hydroxyethoxy)ethyl β-1-pyrrolidylethyl ether, b₁ 120-4°. VIII (100 g. 30%), and 142 g. XLIX in 1 h. at 50° give 130 g. di(1-pyrrolidinyl) methane, b₁₀ 82-5° (1-Me-XLIX gives bis(2-methyl-1-pyrrolidinyl) methane, b₁ 57-8°). The following 1-substituted XLIX are prep'd. (substituent given): CH₂CH₂CO₂Me, b₀ 5 66-8°; CH₂CH₂CN, b₂₀ 105-6° [this with 100 atm. H at 100° over Co gives amine, C₇H₁₆N₂, b₁₀ 76° (monopicrate, m. 145°) mono-p-aminobenzoyl deriv., m. 138°]; CRO, b₂₀ 112-14°; and a compd. constg. 2 mol XLIX and 1 mol CO (from XLIX and CO); CONH₂, m. 218° (from H₂O). CS₂ (144 g.) and 213 g. XLIX treated with Me₂SO₄ give 100% N-pyrrolidinyldithiocarbonic acid Me ester, b₉ 155-8°, m. 90°. p-Toluenesulfonoylsuccinate (197 g.), and 71 g. XLIX, react on mixing to give N-(1-pyrrolidinylcarbonyl)-p-toluenesulfamide, C₁₂H₁₆N₂O₃S, m. 214° (from alc.). XLIX (284 g.), and 142 g. (CH₂Cl)CH₂OH heated 12 h. at 160° give 170 g. bis[2-(1-pyrrolidinyl)ethyl] ether, b₂₂ 166-72°. The following compds. are prep'd. by conventional methods from XLIX and halo (usually

C1) compds. (R = 1-pyrrolidinyl): (CH₂)₂CH₂CH₂, b₂₂ 146-52°; (RCO₂CH₂CH₂)₂, b₁ 190-200°, m. 61°; p-O₂NC₆H₄R (LI), m. 166° [hydrogenation over Ni-Cr₂O₃ at 70-80°, 200 atm. p-H₂N analog (LII), b₂ 140°, m. 35°]; p-O₂NC₆H₄CH₂R, hydrogenated to the p-NH₂ analog, b₃ 129°, m. 51° (from ligroine); 1-[3-quinolyl]pyrrolidine, m. 96-8° (from ligroine); m-O₂NC₆H₄SO₂R; p-MeC₆H₄SO₂R, b₁₇ 177° (from H₂O); p-H₂NC₆H₄SO₂R, m. 168° (from H₂O) [by hydrolysis of the preceding compd. with 5N H₂SO₄]; 3,4-Cl₂C₆H₃SO₂R, m. 112° (from ligroine); 3,5,2-Cl₂(HO)C₆H₂SO₂R, m. 146° (from 70% alc.); 2,1,4,6-Me₄(HO)C₆H₂(SO₂R)₂, m. 153° (from ligroine); 3,4-Cl₂C₆H₃SO₂R, m. 126°. LII sulfate (80 g.) in 250 g. conc'd. H₂SO₄ and 115 mL. H₂O treated at 110° with 72 g. Li, and 95 g. glycerol, H₂O dist'd. to raise the temp. to 140° and held there 6-7 h. gives 1-(6-quinolyl)-XLIX, b₂ 145-70°, m. 117° (from 56% ligroine). The sulfonamide (20 g.) from HO₂SC₆H₄SO₂R (R=1-pyrrolidinyl) refluxed 2 h. with 40 g. XLIX give 2,5,4-ClMe(HO)C₆H₂SO₂R (R=1-pyrrolidinyl, m. 126° (from ligroine). 2-Mercaptobenzothiazole (334 g.) in 1500 mL. of H₂O treated with 426 g. XLIX, then 5 g. 1.5% NaOCl gives 2-benzothiazolylsulfenylpyrrolidine, C₁₁H₁₂N₂S₂ (LIII), m. 178°. VIII (400 g., 30%) and 288 g. iso-PrCHO added with stirring and cooling to 284 g. XLIX and stirred several hrs. at 40-50° give 2,2-dimethyl-3-(1-pyrrolidinyl)propionaldehyde, b₁₄ 83°, this with NH₃ and 150 atm. H at 150° over Ni gives 2,2-dimethyl-3-(1-pyrrolidinyl)propylamine, b₀ 5 55-7°. XLIX (200 g.) and 200 atm. H 12 h. at 200° over 40 g. Raney Co give 27 g. 1-Bu-XLIX, b. 150-4° (picrate, m. 125-7°), and a small amt. of (CH₂)₂CH₂CH₂ (R = 1-pyrrolidinyl), b₃ 138°; similar reaction in the presence of 200 g. NH₃ gives 50 g. 2-Bu-XLIX, b. 154-6° (picrate, m. 122-3°); at 300°

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 over Raney Ni H₂N(CH₂)₄NH₂ and 1-H₂N(CH₂)₄-XLIX, b10 89-119°
 (picrate, m. 125°), and 1,4-di(1-pyrrolidinyl)butane, b10
 121-6° (picrate, m. 157°), are formed. IX (190 g. 50% aq.
 soln.), satd. with NH₃ and passed during 3 h. over 250 mL. 5% ThO₂ on
 Al₂O₃ over which 200 l./h. NH₃ is circulated gives 61 g. unchanged IX and
 30 g. pyrrole (LIV), b. 130°. A mixt. contg. 2/3 1-Me-LIV, b.
 112-13°, and 1/3 2-Me-LIV, b. 147-8°, is prepd. in 62% yield
 from 1-Me-XLIX passed at 500° with N over a ZnO-CuO-Al₂O₃ catalyst.
 2-Me-LIV is also prepd. in 84% yield from 1-Me-LIV over clay chips at red
 heat; L dehydrogenated similarly gives 80% 1-Ph-LIV, m. 56-8°,
 rearranged as above to 2-Ph-LIV, m. 122-3°. XXXVa (180 g.), (or an
 equiv. amt. of XXV or HOCH₂CH(OH)CH₂CH₂OH) and 228 g. PhNH₂ over
 ThO₂-Al₂O₃ at 300° give 1-phenyl-2,5-dihydropyrrole, b5
 85-93°, m. 88° (from MeOH); this, 50 g., in 200 mL. C₆H₆
 added to 90 g. PhMeCHO and 110 g. POCl₃ in 100 mL. C₆H₆, held 2-3 h. at
 0-10° and 12 h. at room temp., gives 4-(2,5-dihydro-1-
 pyrrolyl)benzaldehyde, m. 90-1° (from cyclohexane); semicarbazone,
 m. 270° (from alc.). XIIa (100 g., 94%) added to 662 g. 65% HNO₃
 and 4 g. NaNO₂ at 25° gives 139 g. (CH₂CO₂H)₂; its anhydride (LIVa)
 is prepd. by passing this over Al₂O₃ or SiO₂ at 275° and 130-60 mm.
 HO₂CPhCH₂CO₂H is prepd. similarly from 3-Me-XIIa; the anhydride, m.
 30-5°, b2 105°. XXXVa (100 g.), passed at the rate of 6 g.
 and 240 l. air/h. over 100 mL. catalyst (prepd. by heating 110 g.
 (NH₄)₂MoO₄, 32 g. vanadic acid, and 40 g. TiO₂ 1 h. with 1 l. 4% (CO₂H)₂,
 adding 30 g. NH₄Cl, then 500 g. pumice, evap., and heating 2 h. at
 300°) gives 120-30 g. maleic acid (LV) and anhydride; 100 g. XIIa
 similarly gives 80-90 g. LV and anhydride. Cl (70-80 g.) passed into 100
 g. LIVa at 150-80° gives 60 g. LV anhydride and 40 g. unchanged
 LIVa. Monochloro-LV anhydride is prepd. from maleic anhydride (or LIVa),
 Cl, and FeCl₃ at 160-80°; 100 g. LIVa, some FeCl₃, and 240 g. Cl at
 160-80° give 150 g. dichloromaleic anhydride. LIVa (600 g. 80%),
 treated at 190-200° with 3 g. NaOBz gives 260 g. γ-oxopimelic
 acid dilactone, b1 170°; 300 g. of this refluxed 60 h. with 600 mL.
 EtOH and 30 g. concd. H₂SO₄ give 305 g. diester of γ-oxo-pimelic
 acid, b12 165°. Hydrogenation of the dilactone in alk. soln. at
 160°, 200 atm. gives 90% γ-hydroxypimelic acid; 500 g. of the
 dilactone, and 350 g. NaHCO₃ in 1500 mL. H₂O hydrogenated over 35 g.
 Raney
 Ni and 35 g. Cu chromite at 280°, 200 atm. give 220 g. pimelic
 acid.
 IT 2632-65-7, Pyrrolidine, 1-(p-aminophenyl)- 216139-56-1,
 Pyrrolidine, 1-(p-aminophenyl)-, sulfate
 (preparation of)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

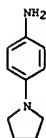


RN 216139-56-1 CAPLUS

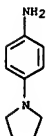
L13 ANSWER 291 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Benzenamine, 4-(1-pyrrolidinyl)-, sulfate (1:1) (9CI) (CA INDEX NAME)
 CH 1
 CRN 7664-93-9
 CHF H2 O4 S



CH 2
 CRN 2632-65-7
 CHF C10 H14 N2

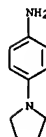


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 ACCESSION NUMBER: 1952:51930 CAPLUS
 DOCUMENT NUMBER: 46:51930
 ORIGINAL REFERENCE NO.: 46:8647d-f
 TITLE: Nitrosation and sulfonation of 1-phenylpyrrolidine
 AUTHOR(S): Tur'ev, Yu. K.; Arbatskii, A. V.
 SOURCE: Vestnik Moskovskogo Universiteta (1951), 6(No. 2,
 Ser. Fiz.-Mat. i Estestven. Nauk No. 1), 97-102
 CODEN: VMUNAE; ISSN: 0372-6320
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB 1-Phenylpyrrolidine (I) (7.5 g.) with 27 mL. concentrated HCl, diluted
 with 55 mL.
 H₂O, treated at -8° with 3.7 g. NaNO₂ gave 71% reddish
 1-(p-nitrosophenyl)pyrrolidine-HCl, (II), forming; with Na₂CO₃ green
 crystals of the free base decompose 121° (from Et₂O). II (5 g.)
 added to 6 g. Sn and 13 mL. concentrated HCl gave, after heating 3 hrs.
 and removal of the Sn by H₂S, 1-(p-aminophenyl)pyrrolidine, b3 142-3°,
 m. 51°; the HCl salt, m. 207-8°, treated with aqueous NaOH
 followed by BzCl gave 1-(p-benzamidophenyl)pyrrolidine, m. 236°
 (from EtOH). II (10 g.) with 350 mL. 1.5 N NaOH at reflux gave 65.5%
 pyrrolidine and p-ONC₆H₄OH. I (6 g.), 20 g. MePh, and 20 g. pyridine-SO₃
 heated 10 hrs. at 111-12°, then treated with aqueous BaCO₃ gave 25% Ba
 p-(1-pyrrolidyl)benzenesulfonate (from aqueous EtOH); free acid,
 decompose 202°. Sulfonation of I with dioxane-SO₃ in (CH₂Cl)₂ 1 hr. at
 75-80° gave 61% sulfonic acid which, ground with PCl₅, gave 56%
 sulfonyl chloride, yellow, decompose 154° (from C₆H₆).
 IT 2632-65-7, Pyrrolidine, 1-(p-aminophenyl)- 216670-47-2,
 Pyrrolidine, 1-(p-aminophenyl)-, hydrochloride
 (preparation of)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 216670-47-2 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

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● HCl

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ACCESSION NUMBER: 1952:8494 CAPLUS
DOCUMENT NUMBER: 46:8494
ORIGINAL REFERENCE NO.: 46:1464b-i,1465a-i,1466a-i,1467a-i,1468a-b,1469a-i,1470a-i,1471a-h
TITLE: Chemical constitution, electrochemical, photographic, and allergenic properties of p-amino-N,N-dialkylanilines
AUTHOR(S): Bent, R. L.; Dessaloch, J. C.; Duennebier, F. C.; Fassett, D. W.; Glass, D. B.; James, T. H.; Julian, D.
CORPORATE SOURCE: B.; Ruby, W. R.; Snell, J. M.; Sterner, J. H.; Thirtle, J. R.; Vittum, P. W.; Weissberger, A. Research Labs., Kodak, Rochester, NY
SOURCE: Journal of the American Chemical Society (1951), 73, 3100-25
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. C.A. 45, 5535b. The ability of color-forming developing agents of the p-amino-N,N-dialkylaniline type to release electrons was measured by their polarog. half-wave potentials, E1/2 (mv.) vs. H electrode at pH 11.0, development rate 1/t (min.-1), and coupling efficiency are presented for 55 compds. The potentials become more pos. when electron-releasing groups are introduced at the tertiary N or in the position ortho to the primary amino group in the C6H6 ring, and the reverse holds for electron-attracting groups. The sequence of half-wave potentials can be explained on the basis of inductive or mesomeric effects of the groups involved, though in several instances the size of the mesomeric effect would not have been anticipated. Steric factors are present. They are dominant if the substituents are ortho to the tertiary amino group. Ring closure involving the tertiary N and the ortho C atom in the C6H6 ring counteracts the steric hindrance. Steric hindrance is also found if 6-membered rings are closed between the 2 nonam. substituents on the tertiary N. Formation of 5-membered rings has the opposite effect. A close relation exists between the half-wave potentials and the abilities of the developing agents to reduce Ag halide and to form dyes in coupling development. Some deviations from this relationship are observed and explained. Certain substituents diminish the allergenic properties of p-amino-N,N-dialkylanilines. All compds. of high allergenic potency have relatively pos. half-wave potentials. Allergenic potency is believed to be related to oxidation to semiquinones and quinones which, by condensation with body proteins, may form antigens. The compds. described in Table I were prepared by the following methods. Salts of 1. Method 1a: The theor. amount of acid for the mono-acid salt in 5 vols. absolute EtOH was added to the distilled 4-amino-N,N-dialkylaniline (I) in 3 vols. absolute or 95% EtOH; 1b: as in 1a, except 5% excess acid over 2 mols. concentrated HCl was used; 1c: acid in 10 vols. absolute EtOH added to I in 2 vols. absolute EtOH; 1d: the free base in a mixture of equal wts. of water and the theor. amount of acid was diluted with 10 vols. absolute EtOH. Method 2a: 0.1 mol of the acetamide in 50 cc. water and

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min. at 0-5° 1 mol of the amine added, then 2.8-3.0 mol NaOAc in 400 cc. water. Method 14: 1 mol sulfanilic acid and 1 mol NaNO2 in 1250 cc. water were poured into 125 g. H2SO4 in 760 cc. ice-cold water, the salt filtered off, and stirred into 1 mol dialkylaniline in about 1 l. AcOH, and the azo compd. reduced after about 30 min. without being isolated. Method 15: 1 mol 2,5-dichlorobenzene was distilled (Moelling and Kopp, Ber. 38, 3506(1905)) and the soln. at 0° added to mole of dialkylaniline or N-alkyl heterocyclic compd. in an equal wt. of AcOH or in 100 cc. concd. HCl and 500 cc. water, NaOAc added to pH 5, and the product filtered off after 0.5 h. in an ice bath. Method 16a: 1 mol of a primary aniline, 2.1 mol alkyl bromide or iodide, 1.2 mol Na2CO3, 400 cc. EtOH, and 100 cc. water were refluxed on a steam bath 5-16 h., the alc. removed in vacuo, 400 cc. water added, and the soln. extd. with 250 cc. Et2O; 16b(1): as in 16a but with 1.1 mol alkyl bromide or iodide and 0.6 mol Na2CO3 or 1.2 mol NaHCO3; 16b(2): 1.34 mol N-alkyl-aniline and 0.67 BrCH2CH2NH2.HBr were heated slowly to 145° during 1.75 h., the mixt. stirred 2 h. at 145°, 400 cc. 10% NaOH stirred over the solid mixt., the oil sepd., the aq. layer extd. with Et2O, the combined oil and exts. concd., and the residue distd. in vacuo; 16b(3) 15.5 g. furfuryl chloride and 32.7 g. EtNHPh warmed gently, then cooled to control the reaction, the mixt. finally heated on the steam bath 30 min., poured into water, neutralized with NH4OH, the amine extd. with Et2O, and the ext. fractionated yielded 17.5 g. N-ethyl-N-furfuryl-aniline, b3 125-6°; 16b(4) 1 mol N-alkylaniline or cyclic secondary amine, 1 mol MeSO2NHCH2CH2Br, 1.1 mol NaHCO3, 190 cc. water, and 500 cc. 95% EtOH were refluxed on the steam bath overnight, the solvents removed in vacuo, and the residue shaken with water and neutralized with AcOH (the amine was taken up in Et2O if it did not crystallize). Method 17: 1 mol N-tetrahydrofurfuryl-m-toluidine and 1 mol Et2SO4 were warmed, then cooled when the reaction started, the mixt. heated 1 h. on the steam bath, poured into water, neutralized with NH4OH, and the amine extd. with Et2O.
Method 18: 1 mol secondary aniline and 1.2 mol ethylene oxide were shaken in a sealed bomb 1-2 h. at 130-5° and the product fractionated. Method 19: 80 cc. formalin was added to 104 g. NaHSO3 in 100 cc. water, 1 mol secondary aniline added to the mixt. kept at 45-50°, the mixt. stirred about 30 min., cooled to 40°, 50 g. NaOH in 160 cc. water added, the mixt. stirred 20 min. at 65°, and the upper layer fractionated in vacuo. Method 20: 1 mol nitrile was added dropwise to 400 cc. concd. H2SO4 kept at 25°, the mixt. stirred 3.5 h. at 25-30°, poured onto 1 kg. ice, 1.1 l. concd. NH4OH added at 25°, and the mixt. cooled to 0° and filtered. Method 21a: 1 mol N-alkyl-N-(2-hydroxyethyl)aniline was added to 1.1 mol POCl3 (temp. kept at 45°), the mixt. stirred 1 h. at 90°, poured onto ice, made alk. with NH4OH, and extd. with Et2O; 21b: 35.8 g. m-Et2NC6H4CH2OH and 224 cc. 48% HBr refluxed overnight, the excess acid removed in vacuo, and the residue in 100 cc. hot alc. chilled yielded 49.1 g. m-diethylaminobenzyl bromide-HBr, m. 162-4°. Method 22: 1 mol K phthalimide and 1 mol N-alkyl-N-(2-chloro-ethyl)aniline were heated 24 h. at 175-80°, the mixt. cooled, dissolved in 200 cc. hot Me2CO, and the soln. stirred into 600 cc. water and filtered after 1 h. Method 23a: 1 mol phthalimidedialkylaniline (III) and 1 l. 48% HBr were refluxed 3 h., the mixt. filtered, the filtrate and washings concd. in vacuo, the residue in water made strongly alk. with 40% NaOH, and the amine extd. with Et2O;

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50 cc. concd. HCl was refluxed 2 h., and the residue in 150 cc. abs. EtOH concd. to a sirup, which in 200 cc. abs. EtOH was concd. to crystn.; 2b: as in 2a, except that the final soln. in 100 cc. abs. EtOH was not concd.; 2c: compd. 15 was refluxed 17 h. with 4 vols. concd. HCl, the acid removed in vacuo, 1 vol. more added and distd. off, and the residue in 1 vol. EtOH concd. to crystn. Method 3a: the theor. amt. of acid in 5 vols. abs. EtOH was added to the filtered alc. soln. of I; 3b: H2SO4 was added in 95% alc. and the soln. allowed to stand 3 days at room temp.; 3c: same as 3a except that Et2O or Me2CO was added to crystn. and the soln. allowed to stand overnight at 0°; 3d: 7 cc. water was added to the filtrate and the salt. pptd. with Et2O. Bases. The last step in the prepn. of the I was in every case a redn. of a nitroso, a nitro, or an azo compd. Method 4: 300 g. Zn dust was added to 1 mol of the nitroso compd. (II) (Table II) in 1 l. water and 600 cc. concd. HCl at 20°, the mixt. filtered, excess 50% NaOH or NH4OH added, the oil extd. with C6H6 or CHCl3, and the soln. concd. to a small vol. and fractionated in vacuo. Method 5: 0.2 mol II in 25-150 cc. abs. EtOH contg. Raney Ni was hydrogenated 10-30 min. at 70-80° and 45 lb./sq. in. Method 6: 0.2 mol nitro compd. was reduced as in 5 and the filtrate treated as in 3. Method 7: the 2,5-dichlorophenylazo compds. were reduced as in method 5 and the salts pptd. as in method 3. Method 8: the p-nitrophenylazo compd. was reduced catalytically, the filtrate concd. in vacuo, 100 cc. Ac2O and several drops concd. H2SO4 added, the mixt. heated on the steam bath 30 min., 600 cc. water added, the soln. neutralized with NaOH, 200 cc. concd. HCl added, the p-C6H4(NHAc)2 filtered off, the filtrate made alk. with 50% NaOH and chilled to yield 4-acetamidodialkylaniline, and the salt prepd. as in 2a. Method 9: solid NaHSO3 was added in small portions to a soln. of the p-sulphophenylazo deriv. (method 14) until the red color disappeared, the soln. made alk. with 50% NaOH, and the product extd. with Et2O. Method 10: 1 mol of N,N-dialkylaniline in 1 l. water and 250 cc. concd. HCl at 0° was nitrosated with 69 g. NaNO2 in 200 cc. water at 0-5°, the mixt. stirred 30 min. at 0-5°, and (a) the mixt. made alk. with NH4OH and stirred until crystn., or (b) the HCl salt pptd. Method 11a: 12.6 g. 2,4-H2N(O2N)C6H3N(Et)2, 4.9 g. NaOAc, 9.5 cc. Ac2O, and 25 cc. AcOH stirred on the steam bath 4 h., the Ac2O hydrolyzed, and the mixt. made alk. with NH4OH and extd. with C6H6 yielded 12.3 g. 2-acetamido-4-nitro-N,N-diethylaniline, m. 49-50.5° (from C6H14-C6H6); 11b: 13 g. 3,4-H2N(O2N)C6H3N(Et)2, 25 cc. Ac2O, and 30 cc. AcOH heated on the steam bath 2 h. yielded 14 g. of the 3-acetamido compd., m. 94-5°. Method 12: anhyd. piperazine (25.8 g.) and 9.5 g. p-ClC6H4NO2 in a stoppered bottle heated 16 h. in a steam bath, the mixt. melted into 300 cc. slightly alk. water, filtered, the moist ppt. extd. with two 100-cc. portions of C6H6, and the dried soln. dild. with 600 cc. petr. ether and filtered yielded 9.0 g. 1-(p-nitrophenyl)piperazine, m. 129-30°. For other substituted 4-O2NC6H4NEt2 the substituent, yield, and m.p. are: 2-NO2, 85, 78-80°; 2-NH2, 32, 204-5° (HCl salt); 3-NO2, 56, 94-6°, 3-NH2, 92, 136-7°; 3-NHET, 95, 78-80°; 3-NMe2, 92, 63.5-4.5°. Method 13: 1 mol p-O2NC6H4NH2 in a boiling mixt. of 300 cc. each water and concd. HCl was poured onto 2 kg. ice, 1 mol NaNO2 added all at once, the mixt. stirred 30 min. at 0-5° 1 mol III and 61.8 g. N2H4H2O were refluxed 1 h., the soln. cooled, 340 cc. concd. HCl added, the mixt. stirred 30 min. at 80°, 450 cc. water added, the mixt. cooled to 20°, filtered, the filtrate and washings concd. to 350-450 cc., the soln. filtered, the filtrate made alk. with 40% NaOH with cooling, 450 cc. Et2O added, the ppt. filtered off, the Et2O soln. concd., and the residue distd. in vacuo. Method 24: 2 mol nitrile and 250 cc. NH3 with 15 g. Raney Ni were hydrogenated 8 h. at 110-15° and 1500-2000 lb./sq. in. Method 25a: 0.5 mol amine was added to 75 cc. Ac2O kept below 75°, the mixt. heated on the steam bath 30 min., 500 cc. water added, and the mixt. cooled; 25b: 115 g. MeSO2Cl and 40 g. NaOH in 200 cc. water were added simultaneously to 1 mol amine in 1 mol water at 10° and the mixt. stirred 45 min. at 10°. Method 26a: 0.3 mol sulfonamide and 600 cc. water contg. 28.8 g. NaOH were warmed until dissolved, the soln. cooled to 35°, 45.3 g. Me2SO4 added at 35°, the mixt. stirred 1.5 h., allowed to stand 2 h., and the amine extd. with Et2O; 26b: 0.25 mol of the Na salt of m-ETOC6H4NEtCH2CH2NH2SO2Me in 50 cc. water was warmed until dissolved and kept at 0° overnight, 5 cc. MeI added, the mixt. refluxed 1.25 h., filtered, concd. to a sirup, the sirup shaken with water and Et2O, and the Et2O evapd. Method 27a: Br (740 cc.) added during 7 h. to 2020 g. m-MeC6H4NO2 illuminated with a photoflood lamp at 130-40°, the mixt. stirred at 135° until no more HBr was evolved, the cooled mixt. in 2 l. Et2O washed with 2 l. water, the Et2O evapd., the residue allowed to stand 2 days, and the liq. decanted from the crystals and fractionated yielded 683 g. m-O2NC6H4CH2Br (IV), m. 58° (from EtOH), b7-8 153.5-4.5°; 27b: 173 g. IV added to 49 g. NaCN in 80 cc. and 280 cc. EtOH at 20°, the mixt. stirred at 60-5°, refluxed 1 h. on the steam bath, the alc. removed in vacuo, the residue partitioned between water and Et2O, the Et2O evapd., and the residue distd. yielded 100 g. m-O2NC6H4CH2CN (V), b3 160-5°; 27c: 146 g. V added to 610 g. SnCl2 in 700 cc. concd. HCl (temp. maintained at 40°), the mixt. stirred 2 h., cooled in an ice-salt bath, 1 kg. ice added, then 21.40% NaOH (temp. kept below 35°), and the amine extd. with two 500-cc. portions of Et2O yielded 99 g. m-H2NC6H4CH2CN, b2 132-5°. Method 28: 397 g. m-phenetidine and 452 g. EtI allowed to stand 30 min. at 35°, then overnight at 45°, 250 cc. 40% NaOH and 500 cc. water added, the mixed amines extd. with Et2O, the Et2O evapd., the oily residue distd., the mixt. of primary, secondary, and tertiary amines added to 275 cc. Ac2O, the soln. heated on the steam bath 30 min., 400 cc. water added, the soln. made alk. with 40% NaOH, and the oil taken up in Et2O yielded 422 g. N-ethyl-m-acetophenetidine (VI), b1 105-10°. Method 29: 289 g. VI, 200 cc. water, and 200 cc. concd. HCl refluxed overnight, made alk. with 40% NaOH, and extd. with Et2O yielded 219 g. of the free phenetidine, b7 125-7°. Method 30: 360 g. furfural mixed with 401 g. m-MeC6H4NH2 (heat was evolved) and the water removed as formed yielded 485 g. N-furfurylidene-m-toluidine (VII), b3 130-2°. Method 31: 485 g. VII reduced with Raney Ni at 1600 lb./sq. in. and 60-120° yielded 378 g. tetrahydrofurfuryl compd., b4 140-2°. Method 32: 100 g. indole in 250 cc. abs. EtOH reduced with Raney Ni 7 h. at 2000 lb./sq. in. and 80-100°, 71 cc. concd. HCl added to the filtrate and washings, and the soln. cooled to 20° and dild. with 1 l. Et2O yielded 2.3-dihydroindole-HCl, m. 222-4°; free base, b8 94.5°, b14 105.5°, nD20 1.5880. Method 33: 40 cc. concd. HCl, 40 cc. water, and 37.7 g. m-Et2NC6H4CH2CN refluxed overnight, concd. in vacuo, the residue in 100 cc. water contg. 20 cc.

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NaOH extd. with two 50-cc. portions of Et2O, acidified with 40 cc. AcOH,
extd. with three 70-cc. portions of Et2O, the 2nd ext. concd., and the
residue distd. yielded 15.4 g. (m-diethylaminophenyl)acetic acid (VIII),
b1 160-5°. Method 34: 14.7 g. VIII in 50 cc. Et2O added dropwise
to 3.8 g. LiAlH4 in 100 cc. Et2O during 30 min., the mixt. refluxed 1 h.,
10 cc. water added dropwise, then 150 cc. 10% H2SO4, the Et2O removed,

the aq. layer made alk. with NH4OH, filtered, the solid washed with Et2O, the
filtrate extd. with Et2O, and the ext. and washings concd. yielded 11.1

g. m-diethylaminophenethyl alc., b1 100-3°. The allergenic activity
of the compds. (numbered as in Table I) are: 9 low, 17 moderate, 43 low,
47 low, 39 low, 40 low, 5 moderate to high, 35 low, 13 low, 15 low, 162
low, 40 high, 16 low to moderate, 37 low to moderate, 10 moderate to

high, 54 low to moderate, 41 low, 52 low to moderate, 38 low, 22 high, 55 high.
Table I: A. p-Amino-N,N-dialkylanilines, p-H2NCH2CH2NR2: No., R1, R2,
Substituent on aniline nucleus, Intermediate, Base, M.p. or b.p./mm.,
Method, Yield (%), Salt, M.p., Method, Yield (%), 1, Me, Me,
....., 0.5H2SO4, >235°; 2, Me, Et, Nitroso,
99-102°/1, 4, 5, 0.5H2SO4, 225-8° (decompn.) 1a, 3 Me,
Pr, Nitroso, 104-6°/1, 4, 64, 0.5H2SO4, 222°/1, 4, 78,
(decompn.) 1a 66; 4, Me, Bu, Nitroso, 114-16°/1, 4, 78,
0.5H2SO4 208-11° (decompn.) 1a 80; 5, Et, Et,
..... HCl, 233-5°, 6, Et, Pr, Nitroso, 105-7°/1,
4, 52, 0.5H2SO4, 205-8° (decompn.) 1a, 77; 7, Pr, Pr,
..... H2SO4, 120-3° (decompn.) 1a, 77; 7, Pr, Pr,
..... 2HCl, 186-9° (decompn.) 1a, 77; 9, Et, Et, 2-Me,
Azo, 7, H2SO4, 215-20° (decompn.) 3a, 72; 10, Et, Et,
3-Me, HCl, 263°; 10a, Et, Et, 3-Et, Azo,
..... 7, HCl, 226-5-7.5°, 3c, 47; 11, Et, Et, 2,5-Me2, Azo,
..... 1.5H2SO4, 167-8°, 3a, 65; 12, Et, Et, 3,5-Me2, Nitroso,
..... 5, HCl, 263-4°, 3c, 81; Azo, 7, 13, Et,
Et, 3-CH2OH, Azo, 180-6°, 7, H2SO4, H2O, 102-3°, 3b, 72;
14, Et, Et, 3-CH2NH2SO2Me, Azo, 7, HCl, 196-7°, 3a, 89;
14a, Et, Et, 3-CH2CH2OH, Azo, 7, 2HCl, 191-2°, 3a, 79;
14b, Et, Et, 3-CH2CH2NH2, Compd. 15, 3HCl, 230°, 2c,
73, 15, Et, Et, 3-CH2CH2NHAc, Nitroso, 195-200°/2, 4, 84, 2HCl,
190-2° (decompn.) 1b, 70; 16, Et, Et, 3-CH2CH2NH2SO2Me, Nitroso,
220-30°/2, 4, 67, HCl, 218-19°, 1a, 85; 16a, Et, Et,
3-CH2CH2NHMeSO2Me, Azo, 7, H2SO4, 138-40°, 3a, 52; 17, Et,
Et, 3-Cl, Azo, 7, HCl, 232° (decompn.) 3c, 58; 18, Et,
Et, 2-MeO, Azo, 7, 0.5H2SO4, 183-5°, 3c, 78; 19, Et, Et,
5,2-MeO(MeO), Azo, NHAc, 2HCl, 228° (decompn.) 2a, 79; m.
128-9°, 8, 55; 20, Et, Et, 3-OH, Azo, 7, HCl,
201-3°, 3a, 57; 21, Et, Et, 3-OEt, Azo, 7, HCl,
208-9-5°, 3c, 79; 22, Et, Et, 3-OEt, Nitroso, 146-8°/8, 4,
0.5H2SO4, H2O, 144-6°, 1c, 43; 23, Et, Et, 2-NH2, Nitro,
6, 2HCl, 235° (decompn.) 3c, 76; 24, Et, Et, 2-NHAc2, Nitro,
103-4°, 6, 79; (hexane); 25, Et, Et, 3-NH2, Nitro,
6, H2SO4, 203-5°, 3a, 79; 26, Et, Et, 3-NHAc, Nitro,
100-1° (C6H6), 6, 83; 27, Et, Et, 3-NH2SO2Me, Nitroso, 5,
HCl, 232°, 3a, 89; Azo, 7, 28, Et, Et, 3-NHAc, Nitro,
..... 6, H2SO4, 0.5H2O, 178-80° (decompn.) 3d, 43; 29, Et, Et,
3-NH2, Nitro, 6, H2SO4, H2O, 107-9°, 3d, 68; 30, Me,
CH2CH2NH2SO2Me, 3-Me, Nitroso, 5, H2SO4, 184-5°, 3a, 67;
31, Et, Et, 3-CH2CH2OH, Nitroso, 148-60°/1, 4, 90, 0.5H2SO4, H2O,
179-80°, 1a, 74; 32, Et, Et, 3-CH2CH2OH, 3-Me, Nitroso, 148°/2, 4,
53, H2SO4, H2O, 150-3°, 1a, 78; 32a, Et, Et, 3-CH2CH2OH, Azo,
7, 0.5H2SO4, 187-9°, 3a, 81; 33, Et, Et, 3-CH2CH2OEt, Nitroso,

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2,5-Cl2C6H315, 78, 135-6°; 18, Et, Et, 2-Ome, 2,5-Cl2C6H3, 15,
43, 67-70°; 19, Et, Et, 5,2-Me(MeO), p-O2NC6H4, 13, 70,
116-17°; 20, Et, Et, 3-OH, 2,5-Cl2C6H3, 15, 43, 153-5°;
..... 22, 157-8°; 21, Et, Et, 3-Ome, 2,5-Cl2C6H3, 15, 65,
140-5-42°; 27, Et, Et, 3-NH2SO2Me, 2,5-Cl2C6H3, 15, 80,
135-6°; 32a, Et, Et, C2H4Ome, 2,5-Cl2C6H3, 15, 64, 77-5°; 79°;
43, Et, Et, 3-CH2CONH2, 3-Me, p-HO3SC6H4, 14; 44, Et, Et, 3-CH2CH2CH2CH2O, p-
HO3SC6H4, 14; B. Arylazo Derivs. of Heterocyclic Bases; 52, Compd.,
5-(2,6-Dichlorophenylazo)-1-[2-(methylsulfonylamido)ethyl]indoline, 15, 89,
144-6°; 53, 6-(2,5-Dichlorophenylazo)-1-ethyl-1,2,3,4-
tetrahydroquinoline, 15, 65, 128-9°; 54, 6-(2,5-Dichlorophenylazo)-
1,2,3,4-tetrahydro-1-[2-(methylsulfonylamido)ethyl]quinoline, 15, 83,
149-50°; 54a, 6-(2,5-Dichlorophenylazo)-1,2,3,4-tetrahydro-7-
methyl-1-[2-(methylsulfonylamido)ethyl]quinoline, 15, 31, 183-4°;
55, 9-(2,5-Dichlorophenylazo)julolidine, 15, 48, 147-8°; Table IV:
A. N-Substituted Anilines, PhNR1R2: Table I, No., R1, R2,
Substituent
on aniline nucleus, Intermediate, Method, B.p./mm. or m.p., Yield (%), 3,
1, Me, Pr, MeNHPh, 16b(1), 95-8°/10, 60; 4, 2, Me, Bu, MeNHPh,
16b(1), 114-16°/12, 66; 5, 3, Et, Pr, EtNHPh, 16b(1),
100-4°/11, 40; 10a, 3a, Et, 3-Et, m-EtC6H4NH2, 16a,
112-15°/11, 61; 11, Et, Et, 2,5-Me, 2,5-xylylamine, 16a,
107-10°/20, 40; 12, Et, Et, 3,5-Me2, 3,5-xylylamine, 16a,
119-20°/12, 83; 14, 6, Et, Et, 3-CH2Br, 3-Et2NC6H4CH2OH, 21b, HBr,
77; m. 162-4°; 14, 7, Et, Et, 3-CH2N(CO)2C6H4, 6,
22, m. 86-8°, 83; 14, 8, Et, Et, 3-CH2NH2, 7, 23b, 84°/0.5,
75; 14, 9, Et, Et, 3-CH2NH2SO2Me, 8, 25b, Na salt, 79; m.
88°; 14a, 9a, Et, Et, 3-CH2CO2H, 11, 33, 160-5°/1, 37; 14a,
9b, Et, Et, 3-CH2CH2OH, 9a, 34, 100-3°/1, 81; 15, 10, H, H,
8-CH2CH2, 27, 13-5°/2, 83; 15, 11, Et, Et, 3-CH2CH2, 10, 16a,
125-30°/2, 89; 15, 12, Et, Et, 3-CH2CH2NH2, 11, 24,
148-50°/10, 100; 15, 13, Et, Et, 3-CH2CH2NHAc, 12, 25a, not
purified, 100; 16, 14, Et, Et, 3-CH2CH2NH2SO2Me, 12, 25b, HCl salt, 98;
..... m. 181-2.5° (base); 16a, 14a, Et, Et, 3-CH2CH2NHMeSO2Me,
14, 26a, 150-5°/0.05, 61; 17, 15, Et, Et, 3-Cl, m-ClC6H4NH2, 16a,
113-14°/6, 86; 18, 16, Et, Et, 2-Ome, m-MeOC6H4NH2, 16a,
95-8°/8, 21; 19, 17, Et, Et, 5,2-Me(MeO), 5,2-Me(MeO)C6H3NH2, 16a,
121-2°/18, 78; 21, 18, Et, Et, 3-Ome, m-MeOC6H4NH2, 16a,
120-4°/8, 63; 27, 19, Et, Et, 3-NH2SO2Me, m-Et2NC6H4NH2, 25b, HCl,
salt, 80; m. 182-3° (base); 30, 20, Me, C2H4NH2, 3-Me,
m-MeNHCH6H4Me, 16b(2), 125-6°/6, 38; 30, 21, Me, C2H4NH2SO2Me, 3-Me,
20, 25b, m. 55-9°, 76; 31, 22, Et, C2H4OH, EtNHPh, 18,
165-7°/22, 100; 32, 23, Et, C2H4OH, 3-Me, m-EtNHCH6H4Me, 18,
117-19°/1.5, 94; 32a, 23a, Et, C2H4Ome, EtNHPh, 16b(1),
123-5°/13, 51; 33, 24, Et, C2H4OEt, EtNHPh, 16b(1),
120°/3, 82; 42, 24, 120°/3, 94; 37, 33, Et,
C2H4NH2SO2Me, 3-Me, 32, 25b, 194-5°/1, 86; 38, 34, Et, Ac, 3-OEt,
m-EtOC6H4NH2, 28, 158-9°/10, 50; 38, 35, Et, H, 3-OEt, 34, 29,
125-7°/7, 95; 38, 36, Et, C2H4NH2, 3-OEt, 35, 16b(2),
181-3°/18, 40; 38, 37, Et, C2H4NH2SO2Me, 3-OEt, 36, 25b, not
purified, 89; 38, 38, Et, C2H4NH2SO2Me, 35, 16b(4), not purified, 99;

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163-8°/7, 4, 36, 2HCl, 198-9° (decompn.), 1b, 64; 34, Et,
CH2CH2NH2, Compd. 35, 2HCl, >250°, 2b, 50; 35,
Et, CH2CH2NH2, Nitroso, 190-5°/1, 5, 86, 2HCl,
177-80°, 1b, 26; 35a, Et, CH2CH2NHAc, 3-OEt, Nitroso, 5, ...
H2C2O4, 3a, 76; 36, Et, CH2CH2NH2SO2Me, Nitroso,
m. 67.5-8.5°, 5, 2HCl, 200° (decompn.), 3a, 75;
..... H2SO4, 153-5°, 1d, 85; 37, Et, CH2CH2NH2SO2Me, 3-Me, Nitroso,
m. 91-1.5°, 4, 5, 92, 91, H2SO4, 168-9°, 1d, 3a, 92, 91;
..... 1.5H2SO4, H2O, 125-30°;
38, Et, CH2CH2NH2SO2Me, 3-EtO, Nitroso, 5, H2C2O4, 87.5-90°,
3a, 78; 39, Et, CH2CH2NHMeSO2Me, Nitroso, 205°/1, 4,
0.5H2SO4, 182°, 1a, 91; 40, Et, CH2CH2NHMeSO2Me, 3-Me, Nitroso, m.
85-6°, 4, 5, 74, 0.5H2SO4, H2O, 148.5-50°, 33, 82; 41, Et,
CH2CH2NHMeSO2Me, 3-OEt, Nitroso, 5, H2C2O4, 149-51°, 3a,
77; 42, Et, CH2CONH2, Nitroso, 5, HCl, 252-3°
(decompn.), 33, 57; 43, Et, CH2CONH2, 3-Me, Azo, m. 127-8°, 9, 79;
44, Et, Tetrahydrofurfuryl, Azo, 156-9°/1, 9, 54, 0.5H2SO4,
165-9° (decompn.), 1a, ... 45, Et, Tetrahydrofurfuryl, 3-Me,
Nitroso, 171-3°/3, 4, Poor, 0.5H2SO4, 136-8°, 1a ... 8
(p-Aminophenyl) Derivs. of Heterocyclic Bases, p-H2NCH2CH2NR2: 46,
1-Pyrrolidyl, 0.5H2SO4, >255°, 47,
1-Piperidyl, 0.5H2SO4, >250°, 48,
1-Piperidyl, 3-Me, H2SO4, 179.5-80.5°,
..... 49, 4-Morpholinyl, 0.5H2SO4, H2O, 250°
(decompn.), ... 50, 4-Morpholinyl, 3-Me, 0.5H2SO4,
214-15.5°, 3a, 54; 51, 1-Piperazyl, Nitro, m. 119-20.5°,
6, 72; C. Amino Derivs. of Heterocyclic Bases; 52, Compd.,
5-Amino-1-[2-(methylsulfonylamido)ethyl]indoline, Azo, 7, 0.5H2SO4,
235°, 3a, 79; 53, 6-Amino-1-ethyl-1,2,3,4-tetrahydroquinoline, Azo,
..... 0.5H2SO4, 252°, 3a, 86; 54, 6-Amino-1,2,3,4-tetrahydro-1-[2-
(methylsulfonylamido)ethyl]quinoline, Azo, m. 116-17°, 7, ...
0.5H2SO4, 179-82°, 3a, 91; 54a, 6-Amino-1,2,3,4-tetrahydro-7-methyl-
1-[2-(methylsulfonylamido)ethyl]quinoline, Azo, m. 150-2°, 7, 67,
0.5H2SO4, H2O, 205-12°, 3a, 71; 55, 9-Aminojulolidine(9-amino-
1,2,3,4,6,6-hexahydrobenzo[1,1]quinolizine), Azo, 7, ... 0.5H2SO4,
242° (decompn.), 3a, 82; Table II: p-Nitroso-N,N-dialkylanilines,
p-ONC6H4NR1R2: No., R1, R2, Substituent on aniline nucleus, Method, Yield
(%), M.p.; 2, Me, Et, 10a; 3, Me, Pr, 10b; 4, Me, Bu, 10b; 6, Et,
Pr, 10b; 12, Et, Et, 3,5-Me2, 10a, 44, 103-4°; 15, Et, Et,
CH2CH2NHAc, 10b; 16, Et, Et, CH2CH2NHAc, 10a, b, 65 as HCl,
81-2.5°; 100 from HCl; 22, Et, Et, 3-OEt, 10b; 27, Et,
Et, 3-NH2SO2Me, 10a, b, 71, 81-2°; 109-11°
(polymorphic); 30, Me, CH2CH2NH2SO2Me, 3-Me, 10a, 83, 133-4°; 31,
Et, CH2CH2OH, 10b; 32, Et, CH2CH2OH, 3-Me, 10b; 33, Et, CH2CH2OEt,
10b; 35, Et, CH2CH2NHAc, 10a, 83, 106-7°; 35a, Et, CH2CH2NHAc,
3-OEt, 10a, 100, 141-2°; 36, Et, CH2CH2NH2SO2Me, 10a, 83,
106-7°; 37, Et, CH2CH2NH2SO2Me, 3-Me, 10a, 75, 121-2°; 38,
Et, CH2CH2NH2SO2Me, 3-OEt, 10a, 85, 112-13°; 39, Et, CH2CH2NHMeSO2Me,
10a, 78, 93-4°; 40, Et, CH2CH2NHMeSO2Me, 3-Me, 10a, 51,
74-6°; 41, Et, CH2CH2NHMeSO2Me, 3-OEt, 10a, 61, 111-12° 42,
Et, CH2CONH2, 10a, 89, 168-9°; 45, Et, CH2CH2CH2CH2O, 3-Me,
10b; Table III: A. p-Arylazo-N,N-dialkylanilines, p-R3N:NC6H4NR1R2;
No., R1, R2, Substituent on aniline nucleus, R3, Method, Yield (%), M.p.;
9, Et, Et, 2-Me, 2,5-Cl2C6H3, 15, 48, 71-3°; 10a, Et, Et, 3-Et,
2,5-Cl2C6H3, 15, 83, 87.5-8.5°; 11, Et, Et, 2,5-Me2, 2,5-Cl2C6H3,
15, 71, 93-4.5°; 12, Et, Et, 3,5-Me2, 2,5-Cl2C6H3, 15, 72,
164-5°; 13, Et, Et, 3-CH2OH, 2,5-Cl2C6H3, 15, 82, 128-8°; 14,
Et, Et, 3-CH2NH2SO2Me, 2,5-Cl2C6H3, 15, 73, 144-5°; 14a, Et, Et,
3-CH2CH2OH, 2,5-Cl2C6H3, 15, 77, 110.5-11.5°; 16a, Et, Et,
3-CH2CH2NHMeSO2Me, 2,5-Cl2C6H3, 15, 74, 143-4°; 17, Et, Et, 3-Cl,

L13 ANSWER 293 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
..... 29, 26a, not purified, 60; 40, 39, Et, C2H4NHMeSO2Me, 3-Me, 33, 26a,
not purified, 88; 41, 40, Et, C2H4NHMeSO2Me, 3-OEt, 37, 26b, not purified,
60; 42, 41, Et, CH2CH2, EtNHPh, 19, 133-4°/6, 75; 42, 42, Et,
CH2CONH2, 41, 20, m. 113-15°; 73, 43, Et, CH2CH2, 3-Me,
m-EtNHCH6H4Me, 19, 107°/1, 79; 43, 44, Et, CH2CONH2, 3-Me, 43, 20,
m. 124-5°, 56; 44, 45, Et, CH2CH2CH2CH2O, EtNHPh, 16b(3),
125-6°/3, 65; 44, 46, Et, CH2CH2CH2CH2O, 45, 31,
128-30°/3, 57; 45, 47, :CHC:CH:CH:CH:O, 3-Me, m-H2NC6H4Me, 30,
130-2°/3, 70; 45, 48, H, CH2CH2CH2CH2O, 3-Me, 47, 31,
132°/3, 75; 45, 49, Et, CH2CH2CH2CH2O, 3-Me, 48, 17,
125-8°/3, 61; B. Heterocyclic Bases; 52, 50, Compd., Indoline,
Indole, 32, 94.5°/8, 71; HCl salt m. 222-4°; 52,
51, 1-, [2-(Methylsulfonylamido)ethyl]indoline, 50, 16b(4), m.
70-1°, 95; 54, 52, 1,2,3,4-Tetrahydro-1-[2-(methylsulfonylamido)-
ethyl]quinoline, tetrahydroquinoline, 16b(4), m. 51-3°; 86; 54a,
53, 1,2,3,4-Tetrahydro-7-methyl-1-[2-(methylsulfonylamido)ethyl]quinoline,
7-Me, 7-methyltetrahydroquinoline, 16b(4), 223°/1.5, 57;
..... HCl salt, m. 185-6°;
IT 218139-56-1, Pyrrolidine, 1-(p-aminophenyl)-, sulfate
(preparation of)
RN 218139-56-1 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)-, sulfate (1:1) (9CI) (CA INDEX NAME)

CH 1
CRN 7664-93-9
CMF H2 O4 S



CH 2
CRN 2632-65-7
CMF C10 H14 N2

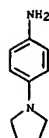


L13 ANSWER 294 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1951:60106 CAPLUS
DOCUMENT NUMBER: 45:60106
ORIGINAL REFERENCE NO.: 45:10236f-1,10237a
TITLE: Nitration, bromination, and carboxylation of 1-phenylpyrrolidine
AUTHOR(S): Yur'ev, Yu. K.; Korsakova, I. S.; Arbatskii, A. V.
CORPORATE SOURCE: Moscow State Univ.
SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1951) 166-71
CODEN: IASKA6; ISSN: 0002-3353
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Slow addition of 13 ml. HNO3 (d. 1.35) to 10 g. 1-phenylpyrrolidine (I) in 70 ml. AcOH at -20° leads to an active reaction when the addition is complete; after standing overnight the solution yields 52% 1-(p-nitrophenyl)pyrrolidine, yellow, m. 100° (from EtOH). A higher temperature and slower addition (20 min. instead of 10 min.) give poorer yields.
(Luvall, et al. (C.A. 43, 594c), give a m.p. of 167-8° for the product.) Reduction by powdered Sn-concentrated HCl gave the p-NH2 analog,
isolated as the HCl salt, m. 208°, which with NaOH and BzCl gave the 1-(p-benzamidophenyl) analog, m. 236° (from EtOH). Addition of an equimolar amount of Br to 10 g. I in AcOH at 15° gave the p-Br derivative, isolated as the HBr salt, m. 178° (from absolute EtOH), which with alkali gave the free base, m. 103° (from Et2O). The best yield (90%) is obtained with 10.8 g. Br and 40 ml. AcOH as solvent when addition takes 10 min. at 15°; higher or lower temps. give lower yields, the former yielding some di-Br derivative which is difficult to sep.
Treatment of 1 g. p-Br derivative suspended in H2O with a solution of HNO2 from 0.3 g. NaNO2, 10 ml. H2O, and an equimolar amount of HCl immediately gave the yellow precipitate of the p-NO2 analog, m. 100°, identical with above described specimen. Addition of 9 g. p-Br derivative in 100 ml. Et2O to a solution of BuLi (containing 5.8 g. BuLi (by titration) in 28 ml. Et2O) in a N atmospheric and refluxing 5 hrs. gave upon pouring the mixture on Dry Ice, extraction with 5% KOH, and acidification with AcOH, 0.2 g. p-(1-pyrrolidyl)benzoic acid, m. 270° (decomposition; from EtOH), also formed in 17% yield on treating 0.7 g. I in Et2O in a N atmospheric with 3.5 g. p-Br derivative in Et2O refluxing 2 hrs., and filtering onto Dry Ice.
IT 216670-47-2, Pyrrolidine, 1-(p-aminophenyl)-, hydrochloride (preparation of)
RN 216670-47-2 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 295 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1951:47132 CAPLUS
DOCUMENT NUMBER: 45:47132
ORIGINAL REFERENCE NO.: 45:8046h-1,8047a
TITLE: Pyrrolidine derivatives
INVENTOR(S): Weickmann, August
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik (I. G. Farbenindustrie AG "In Auflosung")
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
PATENT NO. KIND DATE APPLICATION NO. DATE
DE 803903 19510412 DE
GI For diagram(s), see printed CA issue.
AB Pyrrolidine derivs., useful as intermediates in the preparation of dyes, artificial resins, auxiliary agents for textiles, and pharmaceuticals are prepared by treating 1,4-dihalobutanes with diamines containing at least 1 primary NH2 radical or with primary hydroxylamines: XCH2CHRCRCH2X + H2NA → RN.CH2.CHR.CHR.CH2.2HX (R = H, OH, or an indifferent substituent; X = halogen; A = NH2, hydroxyalkyl, -aryl or -aralkyl group).
Adding Cl(CH2)4Cl (I) 250 with stirring to H2N(CH2)6NH2 (II) 500 at 100° under conditions so as not to exceed a temperature of 110°, heating the mixture 1 h. at 110°, adding 50% aqueous KOH 450, vacuum-evaporating with separation of the precipitated KCl, and vacuum-distilling the residue gives 1-(6-aminohexyl)pyrrolidine, b14 126-7°, besides a minor amount of 1,6-di(1-pyrrolidyl)hexane, b15 165-6°. Similarly are prepared: 1-(p-aminophenyl)pyrrolidine, b16 180-5°, from I and p-C6H4(NH)2; 1-(2-hydroxyethyl)pyrrolidine, b23 86-8°, from I and HOCH2CH2NH2; 1-(6-aminohexyl)-3,4-dihydroxypyrrolidine, b1.3 189°, m. 84°, from [CH(OH)CH2Br]2 (III) and II; 1-(2-aminoethyl)-3,4-dihydroxypyrrolidine, b1.9 177-9°, from III and (CH2NH2)2.
IT 2632-65-7, Pyrrolidine, 1-(p-aminophenyl)- (preparation of)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



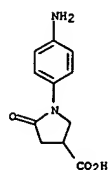
L13 ANSWER 294 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



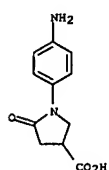
● HCl

L13 ANSWER 296 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1950:30126 CAPLUS
DOCUMENT NUMBER: 44:30126
ORIGINAL REFERENCE NO.: 44:5868d-1,5869a
TITLE: Reaction of itaconic acid with primary amines
AUTHOR(S): Paytas, Peter L.; Sparrow, Edward; Gathe, Joseph C.
CORPORATE SOURCE: Xavier Univ., New Orleans, LA, USA
SOURCE: Journal of the American Chemical Society (1950), 72, 1415-16
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 44:30126
AB HO2CC(=CH2)CH2CO2H, the amine, and H2O (in the ratio of 1 acid mol. to each NH2 group), refluxed 45-60 min., give the following 1-substituted 4-carboxy-2-pyrrolidones: in 32 preps. the dry reactants were fused 10 to 20 min.; the reactions carried out in H2O are indicated. Ph (I) (H2O), m. 189-90°, 89%; o-tolyl, m. 152-3°, 62%; m-isomer, m. 129-30°, 85%; p-isomer, m. 187-8°, 88%; benzyl (H2O), m. 143-4°, 75%; cyclohexyl, m. 185-6°, 81%; (3,5,5-trimethylhexyl), m. 93-4°, 82%; anilino (H2O), m. 196-7°, 76%; (2-biphenyllyl), m. 166-7°, 79%; 4-isomer, m. 249-50° (decomposition), 91%; (1-naphthyl), m. 211°, 81%; 2-isomer, m. 213°, 98%; (p-phenylazophenyl), orange, m. 242-4° (decomposition), 68%; (o-chlorophenyl), m. 144-5°, 52%; m-isomer, m. 135-6°, 84%; p-isomer, m. 150-1°, 87% (also prepared from I and SO2Cl2); (p-bromophenyl), m. 172-3°, 71% (also prepared by bromination of I in AcOH); [2-methoxy-3-chlorophenyl], m. 197-8°, 83%; [2,4-dichlorophenyl], m. 75-6°, 43% (also prepared from I and SO2Cl2); 2,5-isomer, m. 194°, 42%; (m-nitrophenyl), yellow, m. 186-7°, 61%; p-isomer, yellow, m. 175-6°, 31% (also prepared from I and HNO3); (o-hydroxyphenyl), m. 182°, 79%; m-isomer, m. 216-17°, 79%; p-isomer, m. 201-2°, 77%; (o-methoxyphenyl), m. 165°, 60%; p-isomer, m. 172-3°, 86%; (3,4-dimethoxyphenyl), m. 129°, 77%; (m-carboxyphenyl), m. 261°, 68%; p-isomer, m. 287-8° (decomposition), 67%; (p-aminophenyl) (II) (H2O), m. 209-10° (decomposition), 72% (also prepared by reduction of the NO2 compound with Sn and HCl) (HCl salt, yellow, m. 242-5° (decomposition)); (p-sulfamylphenyl) (III), m. 212-14°, 74% [I and ClSO3H give the sulfonyl chloride, m. 273-5° (decomposition) (165-7° on rapid heating); hydrolysis gives the sulfonic acid, m. 335-7° (decomposition); NH3 gives III]; (p-guanylsulfamylphenyl), m. 240-3° (decomposition), 61%.
1,1'-[p-Phenylene]bis[4-carboxy-2-pyrrolidone], from p-C6H4(NH2)2 m. 296-7° (decomposition), 78% (this results in 91% yield from II and HO2CC(=CH2)CH2CO2H and in 12% yield from p-C6H4(NH2)2 in H2O); 1,1'-[4,4'-biphenylene]bis[4-carboxy-2-pyrrolidone], from benzidine, m. 319-22° (decomposition), 77% (fusion of 1-(4'-amino-4-biphenyl)-4-carboxy-2-pyrrolidone and the acid gives 83%). No reaction occurred with 2,4,6-Cl3C6H2NH2, 2,4,6-Br3C6H2NH2, 4-O2NC6H4NH2, 2,4-(O2N)2C6H2, 2,5-(MeO)2C6H3NH2, 2-HO2CC6H4NH2, sulfathiazole, or p-H2NC6H4SO3H. The reaction therefore appears to be limited both by the nature and the position of the substituents in the amine.
IT 346637-44-3, 3-Pyrrolidinecarboxylic acid, 1-(p-aminophenyl)-5-oxo-857425-22-0, 3-Pyrrolidinecarboxylic acid, 1-(p-aminophenyl)-5-oxo-, hydrochloride (preparation of)
RN 346637-44-3 CAPLUS

L13 ANSWER 296 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 CN 3-Pyrrolidinecarboxylic acid, 1-(4-aminophenyl)-5-oxo- (9CI) (CA INDEX NAME)

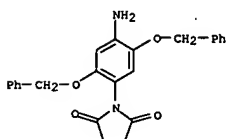


RN 857425-22-0 CAPLUS
 CN 3-Pyrrolidinecarboxylic acid, 1-(p-aminophenyl)-5-oxo-, hydrochloride (5CI) (CA INDEX NAME)



● HCl

L13 ANSWER 297 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



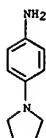
L13 ANSWER 297 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1949:22210 CAPLUS
 DOCUMENT NUMBER: 43:22210
 ORIGINAL REFERENCE NO.: 43:4165b-g
 TITLE: 5-Hydroxy-1,3,4,-triazaindolizines as stabilizers for photographic emulsions
 INVENTOR(S): Heimbach, Newton
 PATENT ASSIGNEE(S): General Aniline & Film Corp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Unavailable
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2450397		19480928	US	

GI For diagram(s), see printed CA Issue.
 AB Products capable of suppressing chemical fog in photog. emulsions are obtained by condensing an alkoxymethylenemalononic acid ester with a 3-amino-1,2,4-triazole. The product is of the general formula I, where R may be H or a carbalkoxy group, R' may be H, Me, or a Ph group, and R'' is H, an alkyl, aryl, carboxy, or carbalkoxy group. Thus, 0.25 mol. (54 g.) of Et ethoxymethylenemalonate and 0.25 mol. (21 g.) of 3-amino-1,2,4-triazole in 40 cc. of glacial AcOH, on refluxing for 2 to 3 h., yield 5-hydroxy-6-carbethoxy-1,3,4-triazaindolizine (II) which ppts. on cooling and is filtered off, washed and recrystd. from 50% MeOH. A carbalkoxy group in the 6-position of I may be replaced by H by saponification and decarboxylation. Thus, 2 g. of II, are warmed on a steam bath with 20 cc. of 5% NaOH for 1/2 h., cooled, diluted with 50 cc. H2O, and acidified with 7 cc. of 5 N H2SO4. The mixture is boiled for 1/2 h, cooled, 2 cc. of 5 N NaOH are added, and the solution allowed to stand in an ice bath for 1 h., precipitating 5-hydroxy-1,3,4-triazaindolizine, which is recrystd. from boiling H2O. Other derivs. of 1,3,4-triazaindolizine which have been prepared according to the above procedures are: 5-hydroxy-6-carbethoxy-2-Me, 5-hydroxy-6-carbethoxy-2-Ph, 5-hydroxy-2-Ph, 5-hydroxy-2,6-dicarbethoxy, 5-hydroxy-6-carbomethoxy, 5-hydroxy-6-carbomethoxy-2-Pr, 5-hydroxy-6-carbomethoxy-7-Me, and 5-hydroxy-6-carbomethoxy-7-Ph. The stabilizer, in a suitable solvent, may be incorporated in the emulsion (25 to 500 mg. per l.), the film base or other layer, or may be applied to the otherwise finished photog. material by bathing. Cf. C.A. 40, 2079.9.
 IT 860428-99-5, Succinimide, N-[4-amino-2,5-bis(benzyloxy)phenyl]- (preparation of)
 RN 860428-99-5 CAPLUS
 CN Succinimide, N-[4-amino-2,5-bis(benzyloxy)phenyl]- (5CI) (CA INDEX NAME)

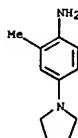
L13 ANSWER 298 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1949:2565 CAPLUS
 DOCUMENT NUMBER: 43:2565
 ORIGINAL REFERENCE NO.: 43:594b-1,595a-c
 TITLE: Oxidation processes. XXI. The autoxidation of the p-phenylenediamines
 AUTHOR(S): LuValle, James E.; Glass, Dudley B.; Weissberger, Arnold
 SOURCE: Journal of the American Chemical Society (1948), 70, 2223-33
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB cf. C.A. 41, 6799i. p-H2NC6H4NHMe2.HCl (170 g.), 190 g. p-MeC6H4SO2Cl, and 400 ml. C5H5N, heated 2 hrs. on the steam bath, give 190 g. Me2NC6H4NHSO2C6H4Me-p (I); 145 g. I in 1 l. absolute EtOH, treated with 11.5 g. Na in 500 ml. absolute EtOH and 75 g. MeI, the mixture boiled 20 hrs., 800 ml. 5% alkali added, the EtOH removed in vacuo, and the residue diluted with 1.5 l. warm H2O, gives 80 g. 4'-dimethylamino-N-methyl-p-toluenesulfonamide, m. 101-1.5°; hydrolysis of 41 g. I by heating 4 hrs. on the steam bath with 40 ml. AcOH and 80 ml. concentrated H2SO4 gives 19 g. p-Me2NC6H4NHMe.2HCl. PhNFr2 (177 g.) in 1 l. H2O and 250 ml. concentrated HCl at 0°, treated (5 min.) with 70 g. NaNO2 in 200 ml. H2O, and the mixture stirred 30 min. at 0-1° and made alkaline with 20 ml. concentrated NH4OH, gives 85 g. N,N-dipropyl-4-nitrosoaniline (II), m. 43-4°; reduction of 20.6 g. II in 100 ml. EtOH at 60°/3 atmospheric and the product treated with 5.6 ml. concentrated H2SO4 in 25 ml. absolute EtOH, gives 20 g. N,N-dipropyl-p-phenylenediamine sulfate. 2,4-Me(4-O2NC6H4N:N)C6H3NH2 (28.4 g.) in 100 ml. absolute EtOH, reduced over Raney Ni at 50°/3 atmospheric, the residue heated 1 hr. on the steam bath with 50 ml. Ac2O, the reaction mixture diluted with 300 ml. H2O, neutralized with Na2CO3, acidified with 50 ml. concentrated HCl, stirred 10 min., the filtrate made alkaline with 40% NaOH, extracted with ether, and the residue from the ether refluxed 1 hr. with 100 ml. 15% HCl, gives 12 g. 4-amino-N,N-dimethyl-o-toluidine-2HCl. Dinitroreurene (21 g.) in 100 ml. absolute EtOH, reduced over 3 g. Raney Ni at 60°/3 atmospheric and the filtrate treated with 50 ml. concentrated HCl, gives 15 g. diaminodurene-2HCl. 4-ClC6H4NO2 (13.4 g.) and 12.1 g. pyrrolidine, heated 6 hrs. at 95-100° (sealed tube), give 10 g. 1-(4-nitrophenyl)pyrrolidine, m. 167-8°; reduction gives 9 g. 1-(4-aminophenyl)pyrrolidine-0.5H2SO4.2H2O. Similarly, 22.4 g. 5,2-I(O2N)C6H3Me gives 8 g. 1-(4-nitro-m-tolyl)pyrrolidine, m. 86-8°; reduction of which yields 5 g. 1-(4-amino-m-tolyl)pyrrolidine-0.5H2SO4. p-ClC6H4NO2 (79 g.) and 100 ml. piperidine, heated 4 hrs. at 95°, give 70 g. 1-(p-nitrophenyl)piperidine, m. 103-5°; reduction of 20.6 g. gives 10 g. 1-(p-aminophenyl)piperidine-0.5H2SO4. 5,2-I(O2N)C6H3Me (26.3 g.) gives 12.5 g.

L13 ANSWER 298 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 1-(4-nitro-m-tolyl)piperidine, m. 53-4°, which yields 14 g.
 1-(4-amino-m-tolyl)piperidine-H₂SO₄. 4-ClC₆H₄NO₂ (80 g.) and 100 g.
 morpholine, heated 3.5 hrs. at 115-20°, give 85 g.
 1-(p-nitrophenyl)morpholine, m. 150-1°; reduction of 20.8 g. gives
 15 g. 1-(p-aminophenyl)morpholine-0.5H₂SO₄.H₂O. 5,2-I(O₂N)C₆H₃Me (80 g.)
 gives 33 g. 1-(4-nitro-m-tolyl)morpholine, m. 142-3°; reduction of
 22.2 g. yields 20 g. 1-(4-amino-m-tolyl)morpholine-H₂SO₄. With the
 exception of diaminodurene (III), all the p-C₆H₄(NH₂)₂ autoxidize by a
 mechanism giving a β-type curve (C.A. 41, 67991); this type curve
 corresponds to the mechanism of Class II-A-3, in which the rate of
 autoxidation of the semiquinone enters into the rate reaction. Expts.
 with III and o-MeC₆H₄NH₂ show that the rate in 20% EtOH is lower
 than in H₂O (possibly because of the increased stability of the
 semiquinone in EtOH). Results with p-H₂NC₆H₄NHMe, p-MeNHC₆H₄NMe₂, and
 III show that the rate is 1st-order with respect to the initial concn. of the
 diamine; with p-MeNHC₆H₄NMe₂, the rate dependency with respect to O
 varies with the pH. The rate-pH relation is rather complicated and is
 illustrated by curves. It is believed that the drop in the rate of
 autoxidation of the p-C₆H₄(NH₂)₂ compds. between pH 7 and 10 is due to a
 decrease in the concn. of the semiquinone species SH₂+. N-Methylation
 increases the rate of autoxidation of p-HOC₆H₄NH₂; the rate of the di-Me
 deriv. is between that of the Me deriv. and the parent substance. The
 di-Me deriv. of p-C₆H₄(NH₂)₂ autoxidizes most readily at all pH values
 investigated; the tri-Me deriv. is next, and the rates of the asym. di-Me
 and the Me compds. lie between the higher methylated compds. and the
 parent substance. p-C₆H₄(NMe₂)₂ autoxidizes relatively fast at low pH
 but more slowly than the parent substance at high pH values. A comparison is
 given of the rates of autoxidation of various compds. at pH 11.5 and 8.
 IT 2632-65-7, Pyrrolidine, 1-(p-aminophenyl)- 143525-69-3,
 Pyrrolidine, 1-(4-amino-m-tolyl)-
 (and autoxidation velocity of)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 143525-69-3 CAPLUS
 CN Benzenamine, 2-methyl-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 298 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



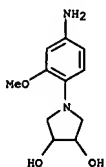
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L13 ANSWER 100 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:449463 CAPLUS
 DOCUMENT NUMBER: 137:24126
 TITLE: Oxidation dyeing composition based on 1-(4-aminophenyl)pyrrolidines substituted in positions 3 and 4, and dyeing method using same
 INVENTOR(S): Terranova, Eric; Vidal, Laurent; Sabelle, Stephane
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

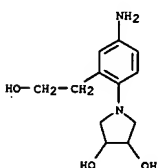
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002045671	A1	20020613	WO 2001-FR3543	20011113
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2817471	A1	20020607	FR 2000-15841	20001206
FR 2817471	B1	20050610		
AU 2002023061	A5	20020618	AU 2002-23061	20011113
EP 1341510	A1	20030910	EP 2001-999350	20011113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004074013	A1	20040422	US 2003-433687	20031107
PRIORITY APPLN. INFO.: FR 2000-15841 A 20001206				
WO 2001-FR3543 W 20011113				

OTHER SOURCE(S): MARIAT 137:24126
 AB The invention concerns an oxidation dyeing composition for keratinous fibers, in particular human keratinous fibers such as hair, comprising as oxidation base a 1-(4-aminophenyl)pyrrolidine substituted in positions 3 and 4. The invention also concerns the method for oxidation dyeing of keratinous fibers using said compns. Thus, N(4-aminophenyl)-3,4-dihydroxypyrrolidine dihydrochloride (I) was prepared by hydrogenation of N-(4-nitrophenyl)-3,4-dihydroxypyrrolidine (preparation given). A hair dye composition contained I 6x10⁻³ mol, 1-beta-hydroxyethylxoy-2,4-diaminobenzene dihydrochloride 6x10⁻³, excipients and water q.s. 100 g. Equal amts. of the dye composition is mixed with 20 volume hydrogen peroxide and is applied on the hair for 30 min, the hair is then rinsed, washed with a shampoo, rinsed, and dried to obtain a blue color.
 IT 435278-34-5 435278-35-6 435278-36-7
 435278-37-8 435278-38-9 435278-39-0
 435278-40-3 435278-41-4 435278-42-5

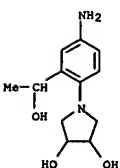
L13 ANSWER 100 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 435278-37-8 CAPLUS
 CN 3,4-Pyrrolidinediol, 1-(4-amino-2-(2-hydroxyethyl)phenyl)- (9CI) (CA INDEX NAME)



RN 435278-38-9 CAPLUS
 CN 3,4-Pyrrolidinediol, 1-(4-amino-2-(1-hydroxyethyl)phenyl)- (9CI) (CA INDEX NAME)

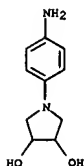


RN 435278-39-0 CAPLUS
 CN 3,4-Pyrrolidinediol, 1-(4-amino-2-(1,2-dihydroxyethyl)phenyl)- (9CI) (CA INDEX NAME)

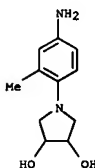
L13 ANSWER 100 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

435278-43-6 435278-44-7 435278-45-8
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 435278-49-2 435278-50-3 435278-51-6
 435278-52-7 435278-53-8 435278-54-9
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 435278-61-8 435278-62-9 435278-63-0
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 435278-70-9 435278-71-0 435278-72-1
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 435278-79-8 435278-80-1 435278-81-2
 435278-82-3 435278-83-4 435278-84-5
 435278-85-6 435278-86-7 435278-87-8
 435278-88-9

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (oxidn. dyeing compn. based on substituted aminophenylpyrrolidines)
 RN 435278-34-5 CAPLUS
 CN 3,4-Pyrrolidinediol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

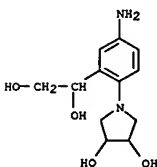


RN 435278-35-6 CAPLUS
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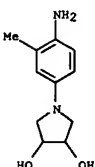


RN 435278-36-7 CAPLUS
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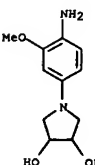
L13 ANSWER 100 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



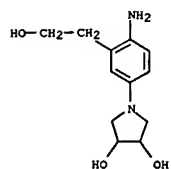
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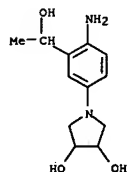
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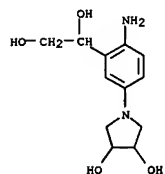
RN 435278-42-5 CAPLUS
 CN 3,4-Pyrrolidinediol, 1-(4-amino-3-(2-hydroxyethyl)phenyl)- (9CI) (CA INDEX NAME)



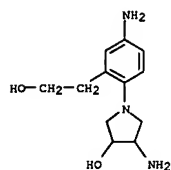
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CN 3,4-Pyrrolidinediol, 1-[4-amino-3-(1-hydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)



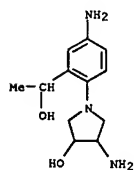
RN 435278-44-7 CAPLUS
CN 3,4-Pyrrolidinediol, 1-[4-amino-3-(1,2-dihydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)



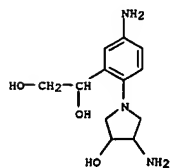
RN 435278-45-8 CAPLUS
CN 3-Pyrrolidinol, 4-amino-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



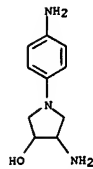
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CN 3-Pyrrolidinol, 4-amino-1-[4-amino-2-(1-hydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)



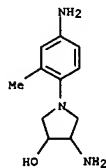
RN 435278-50-5 CAPLUS
CN 1,2-Ethanediol, 1-[5-amino-2-(3-amino-4-hydroxy-1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



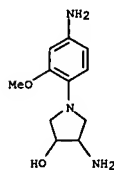
RN 435278-51-6 CAPLUS
CN 3-Pyrrolidinol, 4-amino-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



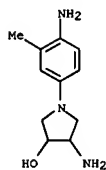
RN 435278-46-9 CAPLUS
CN 3-Pyrrolidinol, 4-amino-1-(4-amino-2-methylphenyl)- (9CI) (CA INDEX NAME)



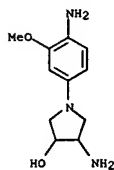
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CN 3-Pyrrolidinol, 4-amino-1-(4-amino-2-methoxyphenyl)- (9CI) (CA INDEX NAME)



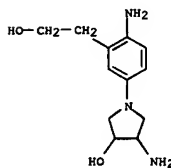
RN 435278-48-1 CAPLUS
CN 3-Pyrrolidinol, 4-amino-1-(4-amino-2-(2-hydroxyethyl)phenyl)- (9CI) (CA INDEX NAME)



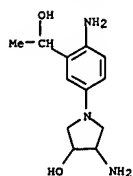
RN 435278-52-7 CAPLUS
CN 3-Pyrrolidinol, 4-amino-1-(4-amino-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



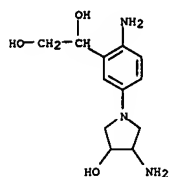
RN 435278-53-8 CAPLUS
CN 3-Pyrrolidinol, 4-amino-1-(4-amino-3-(2-hydroxyethyl)phenyl)- (9CI) (CA INDEX NAME)



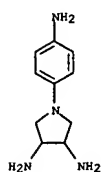
RN 435278-54-9 CAPLUS
CN 3-Pyrrolidinol, 4-amino-1-[4-amino-3-(1-hydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)



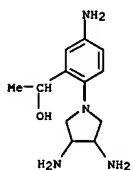
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CN 1,2-Ethanediol, 1-[2-amino-5-(3-amino-4-hydroxy-1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



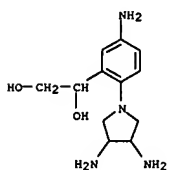
RN 435278-56-1 CAPLUS
CN 3,4-Pyrrolidinediamine, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



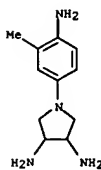
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CN 3,4-Pyrrolidinediamine, 1-(4-amino-2-methylphenyl)- (9CI) (CA INDEX NAME)



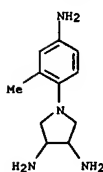
RN 435278-61-8 CAPLUS
CN 1,2-Ethanediol, 1-[5-amino-2-(3,4-diamino-1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



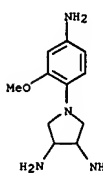
RN 435278-62-9 CAPLUS
CN 3,4-Pyrrolidinediamine, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



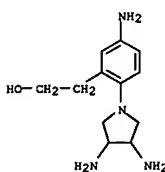
RN 435278-63-0 CAPLUS
CN 3,4-Pyrrolidinediamine, 1-(4-amino-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



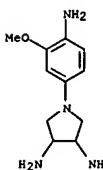
RN 435278-58-3 CAPLUS
CN 3,4-Pyrrolidinediamine, 1-(4-amino-2-methoxyphenyl)- (9CI) (CA INDEX NAME)



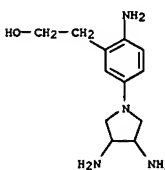
RN 435278-59-4 CAPLUS
CN Benzenethanol, 5-amino-2-(3,4-diamino-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



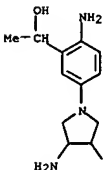
RN 435278-60-7 CAPLUS
CN Benzenethanol, 5-amino-2-(3,4-diamino-1-pyrrolidinyl)-alpha-methyl- (9CI) (CA INDEX NAME)



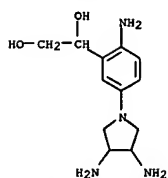
RN 435278-64-1 CAPLUS
CN Benzenethanol, 2-amino-5-(3,4-diamino-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



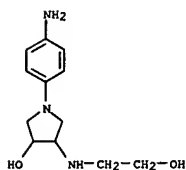
RN 435278-65-2 CAPLUS
CN Benzenethanol, 2-amino-5-(3,4-diamino-1-pyrrolidinyl)-alpha-methyl- (9CI) (CA INDEX NAME)



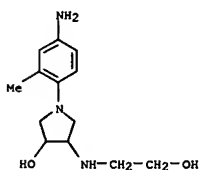
RN 435278-66-3 CAPLUS
CN 1,2-Ethanediol, 1-[2-amino-5-(3,4-diamino-1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



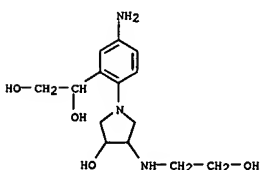
RN 435278-67-4 CAPLUS
CN 3-Pyrrolidinol, 1-[(4-aminophenyl)-4-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



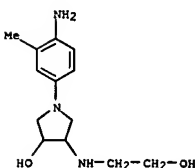
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CN 3-Pyrrolidinol, 1-[(4-amino-2-methylphenyl)-4-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



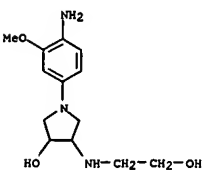
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CN 3-Pyrrolidinol, 1-[(4-amino-2-methoxyphenyl)-4-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



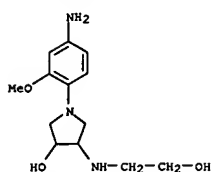
RN 435278-73-2 CAPLUS
CN 3-Pyrrolidinol, 1-[(4-amino-3-methylphenyl)-4-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



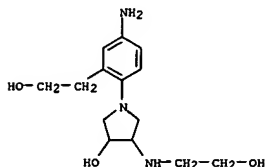
RN 435278-74-3 CAPLUS
CN 3-Pyrrolidinol, 1-[(4-amino-3-methoxyphenyl)-4-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



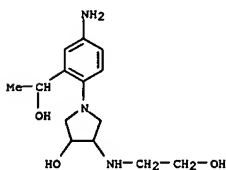
RN 435278-75-4 CAPLUS
CN 3-Pyrrolidinol, 1-[(4-amino-3-(2-hydroxyethyl)phenyl)-4-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



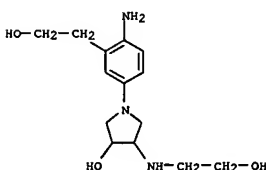
RN 435278-70-9 CAPLUS
CN 3-Pyrrolidinol, 1-[(4-amino-2-(2-hydroxyethyl)phenyl)-4-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



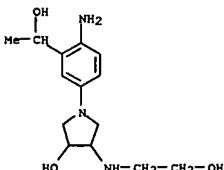
RN 435278-71-0 CAPLUS
CN 3-Pyrrolidinol, 1-[(4-amino-2-(1-hydroxyethyl)phenyl)-4-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



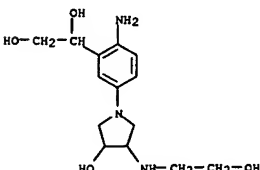
RN 435278-72-1 CAPLUS
CN 1,2-Ethanediol, 1-[(5-amino-2-(3-hydroxy-4-[(2-hydroxyethyl)amino]-1-pyrrolidinyl)phenyl)- (9CI) (CA INDEX NAME)



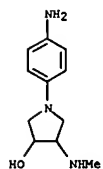
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CN 3-Pyrrolidinol, 1-[(4-amino-3-(1-hydroxyethyl)phenyl)-4-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



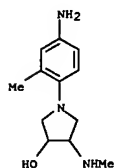
RN 435278-77-6 CAPLUS
CN 1,2-Ethanediol, 1-[(2-amino-5-(3-hydroxy-4-[(2-hydroxyethyl)amino]-1-pyrrolidinyl)phenyl)- (9CI) (CA INDEX NAME)



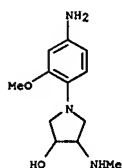
RN 435278-78-7 CAPLUS
CN 3-Pyrrolidinol, 1-[(4-aminophenyl)-4-(methylamino)- (9CI) (CA INDEX NAME)



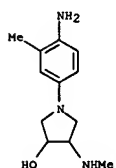
RN 435278-79-8 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-2-methylphenyl)-4-(methylamino)- (9CI) (CA INDEX NAME)



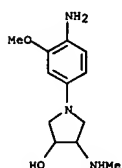
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CN 3-Pyrrolidinol, 1-(4-amino-2-methoxyphenyl)-4-(methylamino)- (9CI) (CA INDEX NAME)



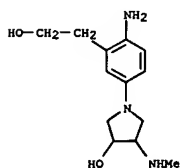
RN 435278-81-2 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-2-(2-hydroxyethyl)phenyl)-4-(methylamino)- (9CI) (CA INDEX NAME)



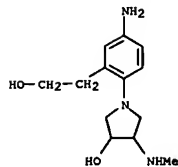
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CN 3-Pyrrolidinol, 1-(4-amino-3-methoxyphenyl)-4-(methylamino)- (9CI) (CA INDEX NAME)



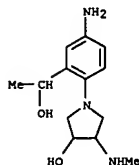
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CN 3-Pyrrolidinol, 1-(4-amino-3-(2-hydroxyethyl)phenyl)-4-(methylamino)- (9CI) (CA INDEX NAME)



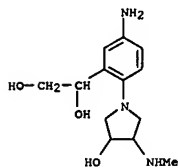
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CN 3-Pyrrolidinol, 1-(4-amino-3-(1-hydroxyethyl)phenyl)-4-(methylamino)- (9CI) (CA INDEX NAME)



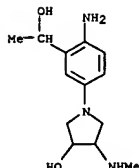
RN 435278-82-3 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-2-(1-hydroxyethyl)phenyl)-4-(methylamino)- (9CI) (CA INDEX NAME)



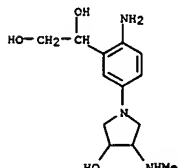
RN 435278-83-4 CAPLUS
CN 1,2-Ethanediol, 1-[5-amino-2-[3-hydroxy-4-(methylamino)-1-pyrrolidinyl]phenyl]- (9CI) (CA INDEX NAME)



RN 435278-84-5 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-4-(methylamino)- (9CI) (CA INDEX NAME)

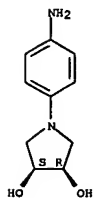


RN 435278-88-9 CAPLUS
CN 1,2-Ethanediol, 1-[2-amino-5-[3-hydroxy-4-(methylamino)-1-pyrrolidinyl]phenyl]- (9CI) (CA INDEX NAME)



IT 435278-32-3P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oxidation dyeing composition based on substituted aminophenylpyrrolidines)
RN 435278-32-3 CAPLUS
CN 3,4-Pyrrolidinediol, 1-(4-aminophenyl)-, dihydrochloride, (3R,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



● 2 HCl

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 101 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:449462 CAPLUS
DOCUMENT NUMBER: 137:10709
TITLE: Oxidation dyeing composition based on
1-(4-aminophenyl) pyrrolidines substituted in
position 2
INVENTOR(S): 2
Sabelle, Stephane; Terranova, Eric
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

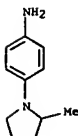
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WO 2002045670	A1	20020613	WO 2001-FR3542	20011113
W:	AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZH, ZI, ZJ, ZM, ZN, ZP, ZT, ZU, ZV, ZW, ZY, ZZ			
FR 2817474	A1	20020607	FR 2000-15844	20001206
FR 2817474	B1	20030103		
AU 2002021984	A5	20020618	AU 2002-21984	20011113
EP 1341509	A1	20030910	EP 2001-999349	20011113
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2004088799	A1	20040513	US 2003-433688	20031105
PRIORITY APPLN. INFO.:			FR 2000-15844	A 20001206
			WO 2001-FR3542	W 20011113

OTHER SOURCE(S): MARPAT 137:10709
AB The invention concerns an oxidation dyeing composition for keratinous fibers, in particular human keratinous fibers such as hair, comprising as oxidation base a 1-(4-aminophenyl)pyrrolidine substituted in positions 2. The invention also concerns the method for oxidation dyeing of keratinous fibers using said compns. Thus, 2-([1-(4-aminophenyl)-4-pyrrolidin-2-ylmethyl]amino)-ethanol (I) was prepared by hydrogenation of 2-([1-(4-nitrophenyl)-4-pyrrolidin-2-ylmethyl]amino)-ethanol (preparation given). A hair dye composition contained I 6x10⁻³ mol, 1-beta-hydroxyethylxoy-2,4-diaminobenzene dihydrochloride 6x10⁻³, excipients and water q.s. 100 g. Equal amts. of the dye composition is mixed with 20 volume hydrogen peroxide and is applied on the hair for 30 min, the hair is then rinsed, washed with a shampoo, rinsed, and dried to obtain a blue color.
IT 433732-13-9 433732-14-0 433732-15-1
433732-16-2 433732-17-3 433732-18-4
433732-19-5 433732-20-8 433732-21-9
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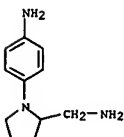
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433732-52-6

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidn. dyeing compn. based on substituted aminophenylpyrrolidines)

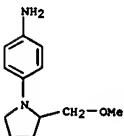
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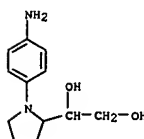
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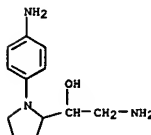
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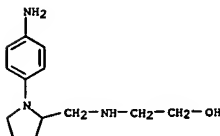
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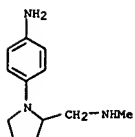
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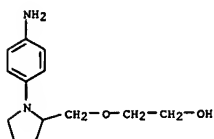
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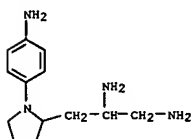
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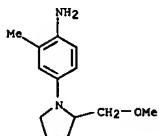
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CN Ethanol, 2-[[1-(4-aminophenyl)-2-pyrrolidinyl]methoxy]- (9CI) (CA INDEX NAME)



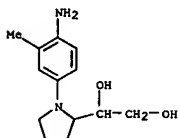
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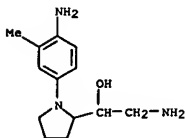
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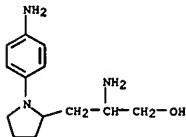
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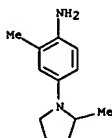
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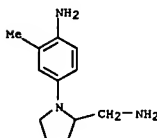
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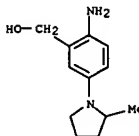
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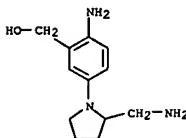
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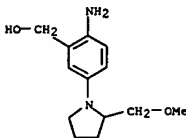
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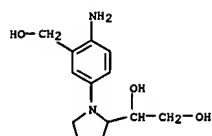
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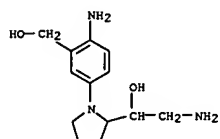
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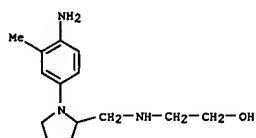
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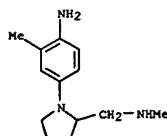
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CN 2-Pyrrolidinemethanol, 1-[4-amino-3-(hydroxymethyl)phenyl]-α-(aminomethyl)- (9CI) (CA INDEX NAME)



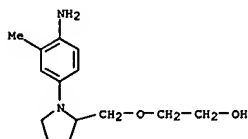
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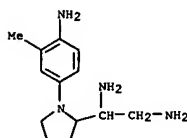
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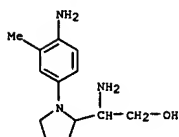
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CN Ethanol, 2-[[1-(4-amino-3-methylphenyl)-2-pyrrolidinyl]methoxy]- (9CI) (CA INDEX NAME)



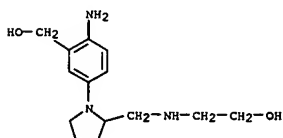
RN 433732-36-6 CAPLUS
CN 1,2-Ethanediamine, 1-[1-(4-amino-3-methylphenyl)-2-pyrrolidinyl]- (9CI) (CA INDEX NAME)



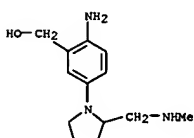
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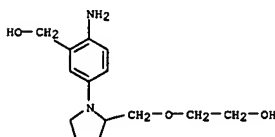
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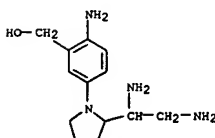
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CN Benzenemethanol, 2-amino-5-[2-[(methylamino)methyl]-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



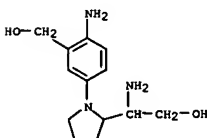
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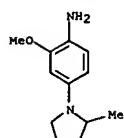
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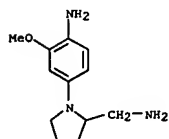
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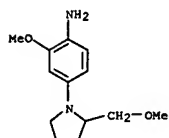
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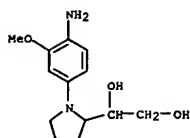
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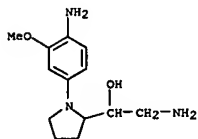
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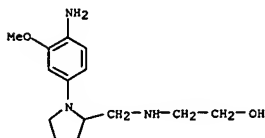
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(CA INDEX NAME)



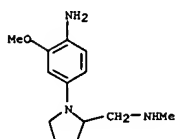
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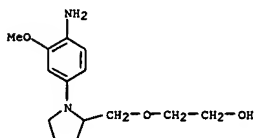
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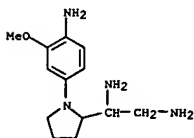
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(CA INDEX NAME)



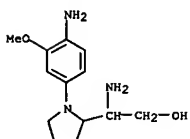
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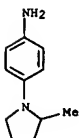
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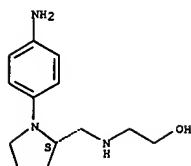
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RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oxidation dyeing composition based on substituted aminophenylpyrrolidines)
RN 433732-06-0 CAPLUS
CN Benzenamine, 4-(2-methyl-1-pyrrolidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

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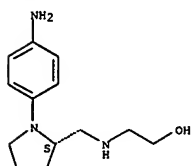
Absolute stereochemistry.



● 2 HCl

RN 433732-12-8 CAPLUS
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Absolute stereochemistry.



● 3 HCl

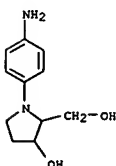
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L13 ANSWER 102 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:449461 CAPLUS
DOCUMENT NUMBER: 137:24125
TITLE: Dyeing composition based on 1-(4-aminophenyl)pyrrolidines substituted at least in positions 2 and 3
INVENTOR(S): Sabelle, Stephane; Terranova, Eric
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

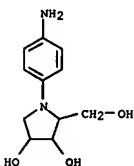
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EP 1341508	A1	20030910	EP 2001-999348	20011113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004083559	A1	20040506	US 2003-433689	20031112
PRIORITY APPLN. INFO.:			FR 2000-15842	A 20001206
			WO 2001-FR3541	W 20011113

OTHER SOURCE(S): MARPAT 137:24125
AB The invention concerns an oxidation dyeing composition for keratinous fibers, in particular human keratinous fibers such as hair, comprising as oxidation base a 1-(4-aminophenyl)pyrrolidine substituted at least in positions 2 and 3. The invention also concerns the method for oxidation dyeing of keratinous fibers using said compns. Thus, 1-(4-aminophenyl)-2-hydroxymethylpyrrolidin-3-ol dihydrochloride (I) was prepared by hydrogenation of 1-(4-nitrophenyl)-2-hydroxymethylpyrrolidin-3-ol (preparation given) and reaction with hydrochloric acid. A hair dye composition contained I 6x10⁻³ mol, 1-beta-hydroxyethylxoy-2,4-diaminobenzene dihydrochloride 6x10⁻³, excipients and water q.s. 100 g. Equal amts. of the dye composition is mixed with 20 volume hydrogen peroxide and is applied on the hair for 30 min, the hair is then rinsed, washed with a shampoo, rinsed, and dried to obtain a gray blue color.
IT 433923-21-8 433923-22-9 433923-23-0
433923-24-1 433923-25-2 433923-26-3
433923-27-4 433923-28-5 433923-29-6
433923-30-9 433923-31-0 433923-32-1

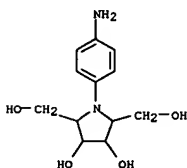
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433923-42-3 433923-43-4 433923-44-5
433923-45-6 433923-46-7 433923-47-8
433923-48-9 433923-49-0 433923-50-3
433923-51-4 433923-52-5 433923-53-6
433923-54-7 433923-55-8 433923-56-9
433923-57-0 433923-58-1 433923-59-2
433923-60-5 433923-61-6 433923-62-7
433923-63-8 433923-77-4
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (oxidn. dyeing compn. based on substituted aminophenylpyrrolidines)
RN 433923-21-8 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



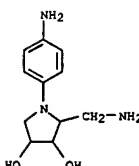
RN 433923-22-9 CAPLUS
CN 3,4-Pyrrolidinediol, 1-(4-aminophenyl)-2-(hydroxymethyl)- (9CI) (CA INDEX NAME)



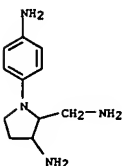
RN 433923-23-0 CAPLUS
CN 2,5-Pyrrolidinedimethanol, 1-(4-aminophenyl)-3,4-dihydroxy- (9CI) (CA INDEX NAME)



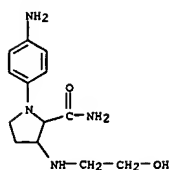
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CN 3,4-Pyrrolidinediol, 2-(aminomethyl)-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



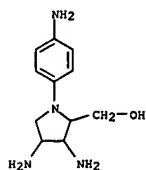
RN 433923-25-2 CAPLUS
CN 2-Pyrrolidinemethanamine, 3-amino-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



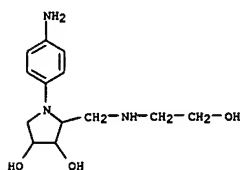
RN 433923-26-3 CAPLUS
CN 2-Pyrrolidinedicarboxamide, 1-(4-aminophenyl)-3-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



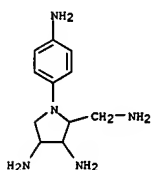
RN 433923-27-4 CAPLUS
CN 2-Pyrrolidinemethanol, 3,4-diamino-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



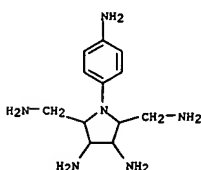
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CN 3,4-Pyrrolidinediol, 1-[(2-hydroxyethyl)amino]methyl]- (9CI) (CA INDEX NAME)



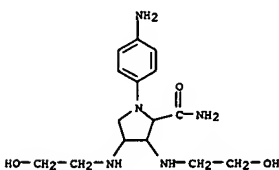
RN 433923-29-6 CAPLUS
CN Proline, 1-(4-aminophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



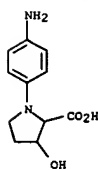
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CN 2,5-Pyrrolidinedimethanamine, 3,4-diamino-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



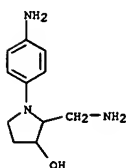
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CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-3,4-bis[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



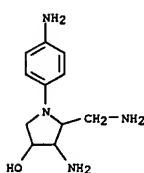
RN 433923-35-4 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-3,4-dihydroxy- (9CI) (CA INDEX NAME)



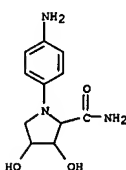
RN 433923-30-9 CAPLUS
CN 3-Pyrrolidinol, 2-(aminomethyl)-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



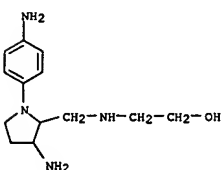
RN 433923-31-0 CAPLUS
CN 3-Pyrrolidinol, 4-amino-5-(aminomethyl)-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



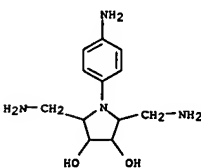
RN 433923-32-1 CAPLUS
CN 3,4-Pyrrolidinediamine, 2-(aminomethyl)-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



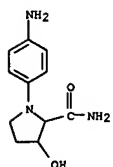
RN 433923-36-5 CAPLUS
CN Ethanol, 2-[[[3-amino-1-(4-aminophenyl)-2-pyrrolidinyl]methyl]amino]- (9CI) (CA INDEX NAME)



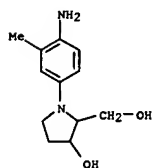
RN 433923-37-6 CAPLUS
CN 3,4-Pyrrolidinediol, 2,5-bis(aminomethyl)-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



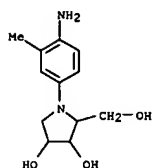
RN 433923-38-7 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



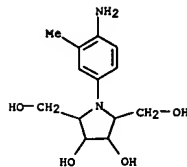
RN 433923-39-8 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-amino-3-methylphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



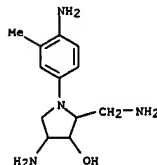
RN 433923-40-1 CAPLUS
CN 3,4-Pyrrolidinedimethanol, 1-(4-amino-3-methylphenyl)-2-(hydroxymethyl)- (9CI) (CA INDEX NAME)



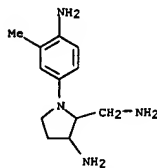
RN 433923-41-2 CAPLUS
CN 2,5-Pyrrolidinedimethanol, 1-(4-amino-3-methylphenyl)-3,4-dihydroxy- (9CI) (CA INDEX NAME)



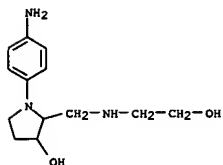
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CN 3-Pyrrolidinol, 4-amino-2-(aminomethyl)-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



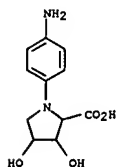
RN 433923-43-4 CAPLUS
CN 2-Pyrrolidinemethanamine, 3-amino-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



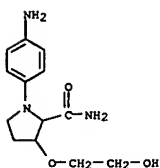
RN 433923-44-5 CAPLUS
CN 3-Pyrrolidinol, 1-(4-aminophenyl)-2-[(2-hydroxyethyl)amino]methyl]- (9CI) (CA INDEX NAME)



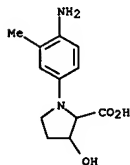
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CN Proline, 1-(4-aminophenyl)-3,4-dihydroxy- (9CI) (CA INDEX NAME)



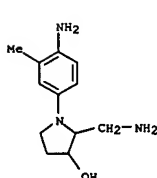
RN 433923-46-7 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-3-(2-hydroxyethoxy)- (9CI) (CA INDEX NAME)



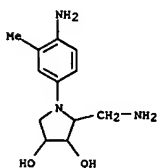
RN 433923-47-8 CAPLUS
CN Proline, 1-(4-amino-3-methylphenyl)-3-hydroxy- (9CI) (CA INDEX NAME)



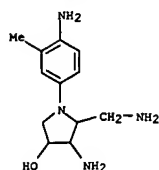
RN 433923-48-9 CAPLUS
CN 3-Pyrrolidinol, 2-(aminomethyl)-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



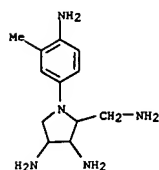
RN 433923-49-0 CAPLUS
CN 3,4-Pyrrolidinediol, 2-(aminomethyl)-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



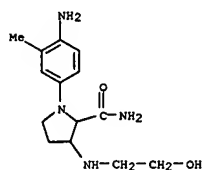
RN 433923-50-3 CAPLUS
CN 3-Pyrrolidinol, 4-amino-5-(aminomethyl)-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



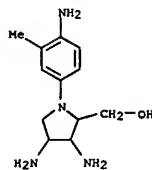
RN 433923-51-4 CAPLUS
CN 3,4-Pyrrolidinediamine, 2-(aminomethyl)-1-(4-amino-3-methylphenyl)- (9CI)
(CA INDEX NAME)



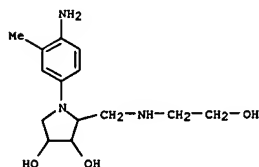
RN 433923-52-5 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)-3-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



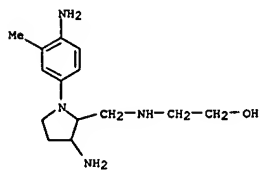
RN 433923-53-6 CAPLUS
CN 2-Pyrrolidinecarboxamide, 3,4-diamino-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



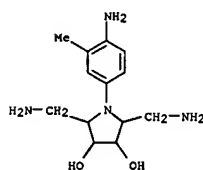
RN 433923-54-7 CAPLUS
CN 3,4-Pyrrolidinediol, 1-(4-amino-3-methylphenyl)-2-[(2-hydroxyethyl)amino]methyl]- (9CI) (CA INDEX NAME)



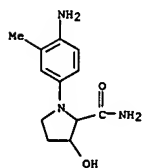
RN 433923-55-8 CAPLUS
CN Ethanol, 2-[[[3-amino-1-(4-amino-3-methylphenyl)-2-pyrrolidinyl]methyl]amino]- (9CI) (CA INDEX NAME)



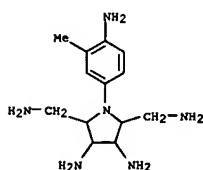
RN 433923-56-9 CAPLUS
CN 3,4-Pyrrolidinediol, 2,5-bis(aminomethyl)-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



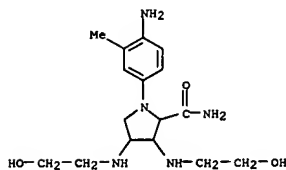
RN 433923-57-0 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)-3-hydroxy- (9CI)
(CA INDEX NAME)



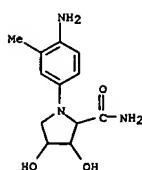
RN 433923-58-1 CAPLUS
CN 2,5-Pyrrolidinedimethanamine, 3,4-diamino-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



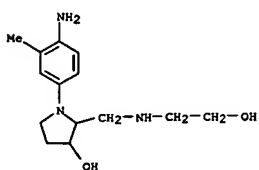
RN 433923-59-2 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)-3,4-bis[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



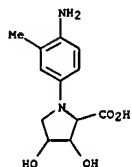
RN 433923-60-5 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)-3,4-dihydroxy- (9CI)
(CA INDEX NAME)



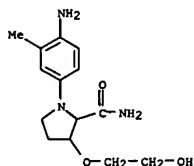
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CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-2-[(2-hydroxyethyl)amino]methyl]- (9CI) (CA INDEX NAME)



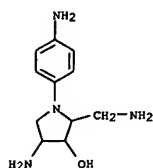
RN 433923-62-7 CAPLUS
CN Proline, 1-(4-amino-3-methylphenyl)-3,4-dihydroxy- (9CI) (CA INDEX NAME)



RN 433923-63-8 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)-3-(2-hydroxyethoxy)- (9CI) (CA INDEX NAME)



RN 433923-77-4 CAPLUS
CN 3-Pyrrolidinol, 4-amino-2-(aminomethyl)-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



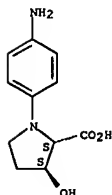
IT 433923-12-7P 433923-17-2P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oxidation dyeing composition based on substituted aminophenylpyrrolidines)
RN 433923-12-7 CAPLUS
CN L-Proline, 1-(4-aminophenyl)-3-hydroxy-, monohydrochloride, (3S)- (9CI)

ACCESSION NUMBER: 2002:449460 CAPLUS
DOCUMENT NUMBER: 137:24124
TITLE: Oxidation dyeing composition based on 1-(4-aminophenyl) pyrrolidines substituted in positions 2 and 5
Sabellio, Stephane; Terranova, Eric
L'Oreal, Fr.
PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002045668	A1	20020613	WO 2001-FR3540	20011113
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2817470	A1	20020607	FR 2000-15840	20001206
FR 2817470	B1	20030103		
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EP 1341507	A1	20030910	EP 2001-999347	20011113
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US 2004064902	A1	20040408	US 2003-433408	20031003
FR 2000-15840 A 20001206				
WO 2001-FR3540 W 20011113				

OTHER SOURCE(S): MARPAT 137:24124
AB The invention concerns an oxidation dyeing composition for keratinous fibers, in particular human keratinous fibers such as hair, comprising as oxidation base a 1-(4-aminophenyl)pyrrolidine substituted in positions 2 and 5. The invention also concerns the method for oxidation dyeing of keratinous fibers using said compns. Thus, [1-(4-aminophenyl)-5-hydroxypyrrrolidin-2-yl]-methanol (I) was prepared by hydrogenation of [1-(4-nitrophenyl)-5-hydroxypyrrrolidin-2-yl]-methanol (preparation given). A hair dye composition contained I 6x10⁻³ mol, 1-beta-hydroxyethylxoy-2,4-diaminobenzene dihydrochloride 6x10⁻³, excipients and water q.s. 100 g. Equal amts. of the dye composition is mixed with 20 volume hydrogen peroxide and is applied on the hair for 30 min, the hair is then rinsed, washed with a shampoo, rinsed, and dried.
IT 433923-92-7 433923-95-0
433923-96-1 433923-97-2 433923-98-3
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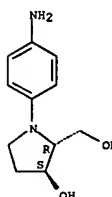
Absolute stereochemistry.



● HCl

RN 433923-17-2 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)-3-hydroxy-, dihydrochloride, (2R,3S)- (9CI) (CA INDEX NAME)

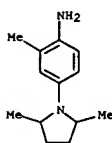
Absolute stereochemistry.



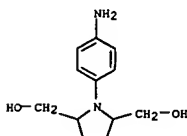
● 2 HCl

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

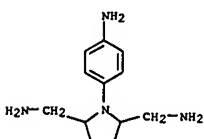
433923-08-8 433923-09-9 433923-10-2
433923-11-3 433923-12-4 433923-13-5
433923-14-6 433923-15-7 433923-16-8
433923-17-9
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidative hair dyes contg. substituted aminophenylpyrrolidines)
RN 155085-72-6 CAPLUS
CN Benzenamine, 4-(2,5-dimethyl-1-pyrrolidinyl)-2-methyl- (9CI) (CA INDEX NAME)



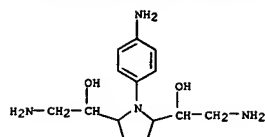
RN 433933-92-7 CAPLUS
CN 2,5-Pyrrolidinedimethanol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



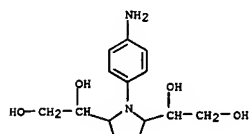
RN 433933-95-0 CAPLUS
CN 2,5-Pyrrolidinedimethanamine, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



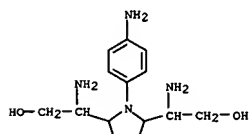
RN 433933-96-1 CAPLUS
CN 2,5-Pyrrolidinedimethanol, alpha, alpha'-bis(aminomethyl)-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



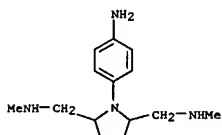
RN 433933-97-2 CAPLUS
CN 2,5-Pyrrolidinediethanol, 1-(4-aminophenyl)-β,β'-dihydroxy- (9CI) (CA INDEX NAME)



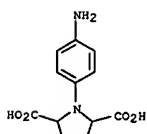
RN 433933-98-3 CAPLUS
CN 2,5-Pyrrolidinediethanol, β,β'-diamino-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



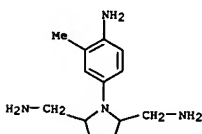
RN 433933-99-4 CAPLUS
CN Ethanol, 2,2'-[1-(4-aminophenyl)-2,5-pyrrolidinediyl]bis(methyleneoxy)]bis- (9CI) (CA INDEX NAME)



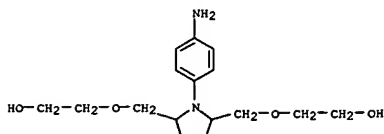
RN 433934-03-3 CAPLUS
CN 2,5-Pyrrolidinedicarboxylic acid, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



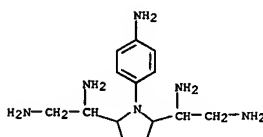
RN 433934-04-4 CAPLUS
CN 2,5-Pyrrolidinedimethanamine, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



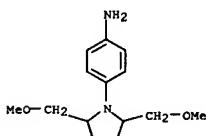
RN 433934-05-5 CAPLUS
CN 2,5-Pyrrolidinedimethanol, α,α'-bis(aminomethyl)-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



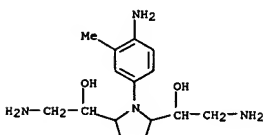
RN 433934-00-0 CAPLUS
CN 2,5-Pyrrolidinediethanamine, β,β'-diamino-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



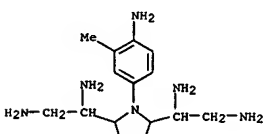
RN 433934-01-1 CAPLUS
CN Benzenamine, 4-[2,5-bis(methoxymethyl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



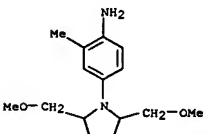
RN 433934-02-2 CAPLUS
CN 2,5-Pyrrolidinedimethanamine, 1-(4-aminophenyl)-N,N'-dimethyl- (9CI) (CA INDEX NAME)



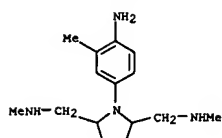
RN 433934-06-6 CAPLUS
CN 2,5-Pyrrolidinediethanamine, β,β'-diamino-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



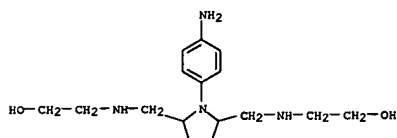
RN 433934-07-7 CAPLUS
CN Benzenamine, 4-[2,5-bis(methoxymethyl)-1-pyrrolidinyl]-2-methyl- (9CI) (CA INDEX NAME)



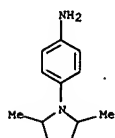
RN 433934-08-8 CAPLUS
CN 2,5-Pyrrolidinedimethanamine, 1-(4-amino-3-methylphenyl)-N,N'-dimethyl- (9CI) (CA INDEX NAME)



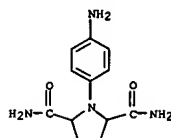
RN 433934-09-9 CAPLUS
 CN Ethanol,
 2,2'-[[1-(4-aminophenyl)-2,5-pyrrolidinediyl]bis(methyleneimino)]
 bis- (9CI) (CA INDEX NAME)



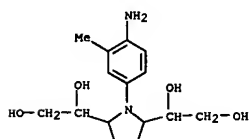
RN 433934-10-2 CAPLUS
 CN Benzenamine, 4-(2,5-dimethyl-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



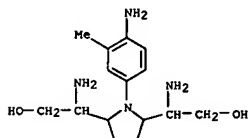
RN 433934-11-3 CAPLUS
 CN 2,5-Pyrrolidinedicarboxamide, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



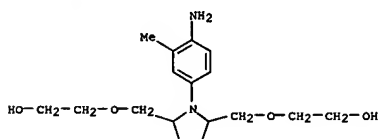
RN 433934-12-4 CAPLUS
 CN 2,5-Pyrrolidinediethanol, 1-(4-amino-3-methylphenyl)-β,β'-
 dihydroxy- (9CI) (CA INDEX NAME)



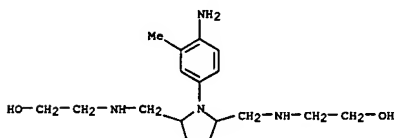
RN 433934-13-5 CAPLUS
 CN 2,5-Pyrrolidinediethanol, β,β'-diamino-1-(4-amino-3-
 methylphenyl)- (9CI) (CA INDEX NAME)



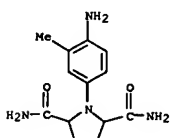
RN 433934-14-6 CAPLUS
 CN Ethanol, 2,2'-[[1-(4-amino-3-methylphenyl)-2,5-
 pyrrolidinediyl]bis(methyleneoxy)]bis- (9CI) (CA INDEX NAME)



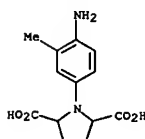
RN 433934-15-7 CAPLUS
 CN Ethanol, 2,2'-[[1-(4-amino-3-methylphenyl)-2,5-
 pyrrolidinediyl]bis(methyleneimino)]bis- (9CI) (CA INDEX NAME)



RN 433934-16-8 CAPLUS
 CN 2,5-Pyrrolidinedicarboxamide, 1-(4-amino-3-methylphenyl)- (9CI) (CA
 INDEX NAME)



RN 433934-17-9 CAPLUS
 CN 2,5-Pyrrolidinedicarboxylic acid, 1-(4-amino-3-methylphenyl)- (9CI) (CA
 INDEX NAME)



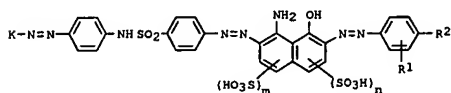
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 104 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2002:403616 CAPLUS
DOCUMENT NUMBER: 137:7497
TITLE: Manufacture of H acid-based trisazo dyes for leather dyeing
INVENTOR(S): Lamm, Gunther; Reichelt, Helmut
PATENT ASSIGNEE(S): BASF AG, Germany
SOURCE: Ger. Offen., 22 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10059032	A1	20020529	DE 2000-10059032	20001128
WO 2002044284	A1	20020606	WO 2001-EP13841	20011127

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
AU 2002018317 A5 20020611 AU 2002-18317 20011127
PRIORITY APPLN. INFO.: DE 2000-10059032 A 20001128
WO 2001-EP13841 W 20011127

OTHER SOURCE(S): CASREACT 137:7497; MARPAT 137:7497
GI



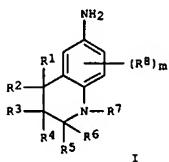
AB Trisazo dyes [I; R1 = H, C1-4 alkyl, halo, SO3H; R2 = R4NYR3, oxadiazolyl]
R3 = H, (un)substituted C1-8 alkyl, (un)substituted C3-8 alkyl, (un)substituted Ph, etc.; R4 = (un)substituted C1-8 alkyl, Ph, tolyl, etc.; Y = CO, SO2, bond; R3R4 with NY can form 5-7-membered (annulated) hetero ring; K = residue of coupling component KH; m, n = 0, 1; m + n = 1,
2], useful for dyeing of leather, were manufactured by diazotization of 4-H2NC6H4NHSOC6H4NH2-4' and coupling reactions with H acid and other coupling components, e.g., phenols or anilines.
IT 13691-27-5 431974-66-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(manufacture of diaminodiphenyl sulfonamide-based trisazo dyes for leather dyeing)
RN 13691-27-5 CAPLUS

L13 ANSWER 105 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2002:268893 CAPLUS
DOCUMENT NUMBER: 136:301724
TITLE: Photographic color development method for fast digital
processing
INVENTOR(S): Fukazawa, Fumishige; Iwagaki, Masaru
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 67 pp.
CODEN: JXOXXF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002107887	A2	20020410	JP 2000-294119	20000927

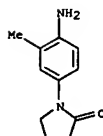
PRIORITY APPLN. INFO.: JP 2000-294119 20000927

OTHER SOURCE(S): MARPAT 136:301724
GI

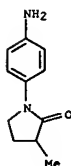


AB The invention relates to a photog. color development method for developing a color photog. film containing fluorosurfactants in 95-120 s. The photog. developer used contains a color photog. development agent selected from I (R1-6 = H, substituent; R7 = alkyl; R8 = substituent; m = 0-3), etc. [6 other Markush structures are given] and the photog. bleach/bleach-fixing agent used contains a compound selected from R1-NR2-OH (R1, R2 = C1-3-alkyl, alkoxy; R1 joining together with R2 may form ring), etc. [4 other Markush structures are given]. The developer image is scanned by an image sensor for digitalizing the image.
IT 143525-64-8
RL: TEM (Technical or engineered material use); USES (Uses)
(color development agent; photog. color development method utilizing specified color development agent and bleach/bleach-fixing agent for fast digital processing)
RN 143525-64-8 CAPLUS
CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

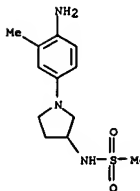
L13 ANSWER 104 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
CN 2-Pyrrolidinone, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



RN 431974-66-2 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)-3-methyl- (9CI) (CA INDEX NAME)



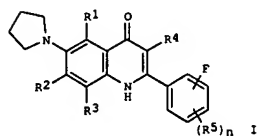
L13 ANSWER 105 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



L13 ANSWER 106 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:256252 CAPLUS
 DOCUMENT NUMBER: 136:279354
 TITLE: Preparation of
 2-fluorophenyl-6-pyrrolidinylquinolones
 as antimitotic and antitumor agents
 Lee, Kuo-Hsiung; Xia, Yi; Yang, Zheng-Yu; Kuo,
 Sheng-Chu
 INVENTOR(S): University of North Carolina at Chapel Hill, USA
 PATENT ASSIGNEE(S): PCT Int. Appl., 33 pp.
 SOURCE: CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

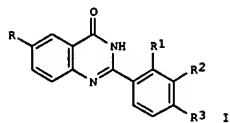
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002026730	A2	20020404	WO 2001-US29916	20010925
WO 2002026730	A3	20020919		
W: CA, CN, JP RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
US 6569870	B1	20030527	US 2000-669155	20000925
CA 2423482	AA	20020404	CA 2001-2423482	20010925
EP 1322615	A2	20030702	EP 2001-977164	20010925
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004509956	T2	20040402	JP 2002-531114	20010925
PRIORITY APPLN. INFO.:			US 2000-669155	A 20000925
			WO 2001-US29916	W 20010925

OTHER SOURCE(S): MARPAT 136:279354
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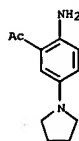
AB Title compds. (I; R1-R5 = H, OH, alkyl, alkoxy, halo, amino; n = 0-4),
 were prepared Thus, 2-amino-5-pyrrolylacetophenone in THF containing
 Et3N was
 treated dropwise with 2-FC6H4COCl under ice cooling followed by stirring
 overnight to give a residue. This was heated with KOtBu in Me3COH at
 70° for 59.3h 2-(2-fluorophenyl)-6-pyrrolyl-4-quinolone. This
 showed cytotoxic activity against renal and melanoma cell lines with log
 GI50 < -8.00, and inhibited tubulin polymerization with IC50 = 0.46 µM.
 IT 56915-84-5
 RL: RCT (Reactant); RACT (Reactant or reagent)

L13 ANSWER 107 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:29415 CAPLUS
 DOCUMENT NUMBER: 136:355207
 TITLE: Synthesis and preliminary cytotoxic and antifungal
 evaluation of some 6-N,N-dialkyl 2-aryl-4(3H)-
 quinazolinone derivatives
 Lopez, Simon E.; Rosales, Monica E.; Canelon, Carlos
 E.; Valverde, Edgar A.; Narvaez, Rosa C.; Charis,
 Jaime E.; Giannini, Fernando A.; Enriz, Ricardo D.;
 Carrasco, Mirta; Zaccaro, Susana
 CORPORATE SOURCE: Departamento de Quimica, Universidad Simon Bolivar,
 Caracas, 1080-A, Venez.
 SOURCE: Heterocyclic Communications (2001), 7(5), 473-480
 CODEN: HCOMEX; ISSN: 0793-0283
 PUBLISHER: Freund Publishing House Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 136:355207
 GI

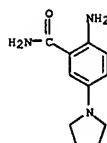


AB Arylquinazolinones I (R = 1-pyrrolidinyl, 1-piperidinyl, 4-morpholinyl;
 R1
 = H, Cl; R2 = H, Cl, MeO, F; R3 = H, Cl, Me) bearing a cyclic amino group
 were prepared and evaluated as potential antitumor and antifungal
 agents. I
 were prepared from 5-chloro-2-nitrobenzamide by displacement of the
 5-chloro
 group with pyrrolidine, piperidine, or morpholine, reduction of the
 2-nitro
 moiety with Pd/C and hydrogen, and cyclocondensation of the
 aminobenzamides with substituted benzaldehydes. I were moderately
 cytotoxic towards lymphocytes and less cytotoxic to lymphocytes than
 colchicine, suggesting that factors other than the oxidation state of the
 N1-C2 bond are important for cytotoxicity in quinazolinones. I were
 inactive as antifungal agents against yeast, filamentous and dermatophyte
 fungi.
 IT 314768-96-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of pyrrolidinyl, piperidinyl, and morpholinyl
 arylquinazolinones and their cytotoxicity and lack of antifungal
 activities)
 RN 314768-96-2 CAPLUS
 CN Benzamide, 2-amino-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 106 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (prepn. of 2-fluorophenyl-6-pyrrolidinylquinolones as antimitotic and
 antitumor agents)
 RN 56915-84-5 CAPLUS
 CN Ethanone, 1-[2-amino-5-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



L13 ANSWER 107 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR
 THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 108 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:6386 CAPLUS
 DOCUMENT NUMBER: 136:69731
 TITLE: Preparation of N-phenylthiophenecarboxamides and analogs as NO synthase and lipid peroxidation inhibitors
 INVENTOR(S): Chabrier de Lassaulniere, Pierre Etienne; Auvin, Serge;
 PATENT ASSIGNEE(S): Bigg, Dennis; Auguet, Michel; Harnett, Jeremiah Societe de Conseils de Recherches et d'Applications Scientifiques (S.C.R.A.S.), Fr.
 SOURCE: U.S., 63 pp., Cont.-in-part of U. S. Ser. No. 381,749.
 DOCUMENT TYPE: CODEN: USXXAM
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: English 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6335445	B1	20020101	US 1999-456205	19991207
FR 2761066	A1	19980925	FR 1997-3528	19970324
FR 2761066	B1	20001124		
FR 2764889	A1	19981224	FR 1997-7701	19970620
FR 2764889	B1	20000901		
WO 9842696	A1	19981001	WO 1998-FR288	19980216
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6340700	B1	20020122	US 1999-381749	19990922
US 2002007062	A1	20020117	US 2001-882264	20010615
US 6630461	B2	20031007		
US 2002045753	A1	20020418	US 2001-945782	20010904
US 6599903	B2	20030729		
US 2002042511	A1	20020411	US 2001-953682	20010917
US 6586454	B2	20030701		
US 2003078420	A1	20030424	US 2002-191950	20020709
US 6809088	B2	20041026		
US 2005043397	A1	20050224	US 2004-898916	20040726
US 2005187272	A1	20050825	US 2005-105291	20050413
PRIORITY APPLN. INFO.:			FR 1997-3528	A 19970324
			FR 1997-7701	A 19970620
			WO 1998-FR288	W 19980216
			US 1999-381749	A2 19990922
			WO 1998-FR1250	W 19980615
			US 1999-456205	A3 19991207
			US 2001-882264	A3 20010615
			US 2002-191950	A3 20020709

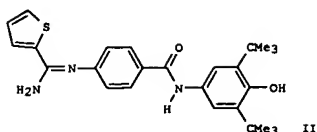
L13 ANSWER 109 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:886038 CAPLUS
 DOCUMENT NUMBER: 136:5731
 TITLE: Process for the production of nitrogen compounds
 INVENTOR(S): Emura, Takashi; Hanelahi, Tsuyoshi
 PATENT ASSIGNEE(S): Chugai Seiyaku Kabushiki Kaisha, Japan
 SOURCE: PCT Int. Appl., 27 pp.
 DOCUMENT TYPE: CODEN: PIXXD2
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: Japanese 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001092207	A1	20011206	WO 2001-JP4504	20010529
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001058860	A5	20011211	AU 2001-58860	20010529
EP 1285909	A1	20030226	EP 2001-932323	20010529
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2003158442	A1	20030821	US 2002-296925	20021129
US 6803472	B2	20041012		
US 2005075513	A1	20050407	US 2004-954605	20041001
US 6960689	B2	20051101		
US 2005043569	A1	20050224	US 2004-956040	20041004
US 2005049421	A1	20050303	US 2004-957603	20041005
US 6946576	B2	20050920		
PRIORITY APPLN. INFO.:			JP 2000-158525	A 20000529
			WO 2001-JP4504	W 20010529
			US 2002-296925	A3 20021129

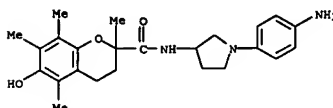
OTHER SOURCE(S): CASREACT 136:5731; MARPAT 136:5731
 AB A process of reacting a compound having an NH group with a thiocyanate, a cyanamide, a nitrile, or an ester in the presence of a silylating agent to thereby obtain the corresponding nitrogen-containing addition or substitution products. This process enables direct and efficient synthesis of nitrogen compds. such as isothioureas, guanidines, amidines, and amides, and is universally applicable and suitable for mass production
 IT 377092-29-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (process for the production of nitrogen compds.)
 RN 377092-29-0 CAPLUS
 CN Acetamide, N-[[5-amino-2-(1-pyrrolidinyl)phenyl]methyl]-2,2,2-trifluoro-(9CI) (CA INDEX NAME)

L13 ANSWER 108 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 US 2004-898916 A3 20040726

OTHER SOURCE(S): MARPAT 136:69731
 GI

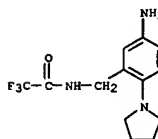


AB RZ1Z2Z3N:C(NH2)R1 [I; R = H, (un)substituted C6H4OR3, indolyl, etc.; R1 = alkyl or (un)substituted (hetero)aryl; R3 = H, alkyl, etc.; Z = bond, CO, alkylene(carbonyl), CONH, etc.; Z1 = bond or heterocyclene; Z2 = bond, alkylene(oxy), etc.; Z3 = (un)substituted phenylene] were prepared. Thus, 4-(O2N)C6H4NH2 was amidated by 3,5-di-tert-butyl-4-hydroxybenzoic acid and the reduced product amidated by S-methyl-2-thiophenethiocarboximide hydroiodide to give title compound II. Data for biol. activity of I were given.
 IT 218944-33-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Preparation of N-phenylthiophenecarboxamides and analogs as NO synthase and lipid peroxidn. inhibitors)
 RN 218944-33-3 CAPLUS
 CN 2H-1-Benzopyran-2-carboxamide, N-[[1-(4-aminophenyl)-3-pyrrolidinyl]-3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L13 ANSWER 109 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



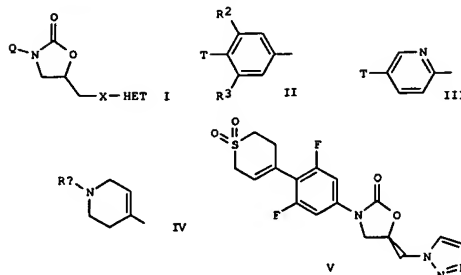
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 110 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2001:798227 CAPLUS
 DOCUMENT NUMBER: 135:344473
 TITLE: Oxazolidinone derivatives with antibacterial activity
 INVENTOR(S): Gravestock, Michael Barry; Betts, Michael John;
 Griffin, David Alan; Matthews, Ian Richard
 PATENT ASSIGNEE(S): AstraZeneca AB, Swed.; AstraZeneca UK Limited
 SOURCE: PCT Int. Appl., 143 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001081350	A1	20011101	WO 2001-GB1815	20010423
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2405349	AA	20011101	CA 2001-2405349	20010423
BR 2001010240	A	20030107	BR 2001-10240	20010423
EP 1286998	A1	20030305	EP 2001-921669	20010423
EP 1286998	B1	20040609		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003531211	T2	20031021	JP 2001-578439	20010423
EE 200200598	A	20040415	EE 2002-598	20010423
NZ 521765	A	20040528	NZ 2001-521765	20010423
AT 268778	E	20040615	AT 2001-921669	20010423
PT 1286998	T	20040930	PT 2001-921669	20010423
ES 2220759	T3	20041216	ES 2001-1921669	20010423
AU 781784	B2	20050616	AU 2001-48636	20010423
ZA 2002008187	A	20040211	ZA 2002-8187	20021010
NO 2002005091	A	20021209	NO 2002-5091	20021023
US 2003216373	A1	20031120	US 2003-258355	20030506
HK 1053114	A1	20050218	HK 2003-105394	20030725
			GB 2000-9803	A 20000425
PRIORITY APPLN. INFO.:			WO 2001-GB1815	W 20010423

OTHER SOURCE(S): MARPAT 135:344473
 GI

L13 ANSWER 110 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



AB The title compds. [I; X = O, NH, S, etc.; HET = (un)substituted C-linked 5-membered heteroaryl ring containing 2-4 heteroatoms selected from N, O and

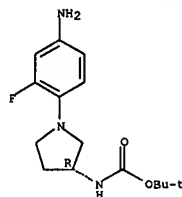
S, etc.; Q = II, III, etc. (wherein R2, R3 = H, F; T = an N-linked (fully unsatd.) 5-membered heteroaryl ring system or IV; R1 = R1CO, R1SO2, R1CS, etc.; R13 = alkyl, etc.), useful as antibacterial agents, were prepared and formulated. E.g., a multi-step synthesis of the oxazoline

(R)-V which showed MIC of 0.125 µg/mL against Staphylococcus aureus (Oxford), was given.

IT 252336-77-99 252337-21-69
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (oxazolidinone derivs. with antibacterial activity)

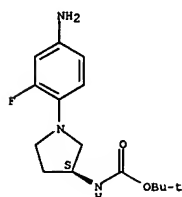
RN 252336-77-9 CAPLUS
 CN Carbamic acid, [(3R)-1-(4-amino-2-fluorophenyl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 110 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 RN 252337-21-6 CAPLUS
 CN Carbamic acid, [(3S)-1-(4-amino-2-fluorophenyl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 111 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2001:796234 CAPLUS
 DOCUMENT NUMBER: 135:348711
 TITLE: Oxidative hair dye compositions comprising 1-(4-aminophenyl)-pyrrolidine derivatives and a particular direct dye

INVENTOR(S): Kravtchenko, Sylvain; Legrange, Alain
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: Eur. Pat. Appl., 100 pp.
 CODEN: EPXDXW

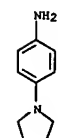
DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1149575	A1	20011031	EP 2001-400879	20010405
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2807650	A1	20011019	FR 2000-4991	20000418
FR 2807650	B1	20020524		
JP 2001335446	A2	20011204	JP 2001-120414	20010418
US 2002095732	A1	20020725	US 2001-836600	20010418
US 2003084516	A9	20030508		
PRIORITY APPLN. INFO.:			FR 2000-4991	A 20000418

OTHER SOURCE(S): MARPAT 135:348711
 AB Oxidative hair dye compns. comprise 1-(4-aminophenyl)-pyrrolidine and a particular direct dye such as nitrobenzene derivs. or quaternary ammonium derivs. A hair dye contained 1-(4-aminophenyl)-pyrrolidine dihydrochloride 0.235, 2,4-diamino-1-(β-hydroxyethoxy)-benzene dihydrochloride 0.241, Basic Red-51 0.168, excipients and water q.s. 100 g. Equal amount of the composition is mixed with 20 vol hydrogen peroxide and applied on the hair for 30 min, the hair is then rinsed, washed with a shampoo, rinsed, and dried.

IT 163260-77-3
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (oxidative hair dye compns. comprising aminophenylpyrrolidine derivs. and particular direct dye)

RN 163260-77-3 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)

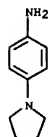


REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L13 ANSWER 112 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:780402 CAPLUS
DOCUMENT NUMBER: 135:322520
TITLE: Oxidative hair dye composition containing 1-(4-aminophenyl)-pyrrolidine and an enzymatic oxidation system
INVENTOR(S): Kravtchenko, Sylvain; Ploas, Gregory
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1147763	A1	20011024	EP 2001-400882	20010405
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2807653	A1	20011019	FR 2000-4994	20000418
FR 2807653	B1	20020524		
JP 2001354533	A2	20011225	JP 2001-120415	20010418
US 2002020029	A1	20020221	US 2001-836411	20010418
PRIORITY APPLN. INFO.:			FR 2000-4994	A 20000418

OTHER SOURCE(S): MARPAT 135:322520
AB An oxidative hair dye composition containing 1-(4-aminophenyl)-pyrrolidine and an enzymic oxidation system comprising an oxidoreductase or peroxidase enzyme is disclosed. A hair dye composition contained uricas 10x103 units, 1-(4-aminophenyl)-pyrrolidine dihydrochloride 0.705, 1- β -hydroxyethyloxy-2,4-diaminobenzene dihydrochloride 0.723, N-acetyl-L-cysteine 0.10, uric acid 1, polyglycerol monooleate 1, Aculyn-22 0.75 g, 2-amino-2-methyl-1-propanol q.s. pH = 9.5, and water q.s. 100 g.
IT 163260-77-3
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(oxidative hair dye composition containing 1-(4-aminophenyl)-pyrrolidine and enzymic oxidation system)
RN 163260-77-3 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



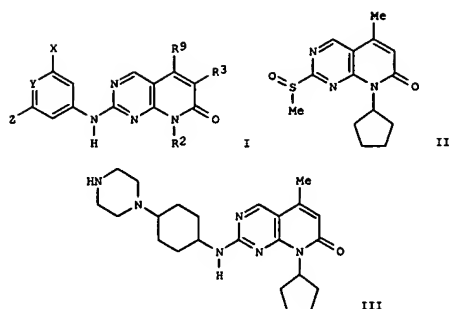
● 2 HCl

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L13 ANSWER 113 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:713350 CAPLUS
DOCUMENT NUMBER: 135:272982
TITLE: Preparation of 5-alkylpyrido[2,3-d]pyrimidine tyrosine kinase inhibitors
INVENTOR(S): Booth, Richard John; Dobrusin, Ellen Myra; Toogood, Peter Laurence; Vanderwel, Scott Norman
PATENT ASSIGNEE(S): Warner-Lambert Company, USA
SOURCE: PCT Int. Appl., 119 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

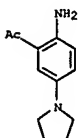
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001070741	A1	20010927	WO 2001-US2657	20010129
W: AE, AG, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, ZH, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2401368	AA	20010927	CA 2001-2401368	20010129
EP 1268476	A1	20030102	EP 2001-905114	20010129
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001009056	A	20030603	BR 2001-9056	20010129
JP 2003328101	T2	20030924	JP 2001-568942	20010129
NZ 520962	A	20030926	NZ 2001-520962	20010129
EE 200200506	A	20040216	EE 2002-506	20010129
ZA 2002007110	A	20031204	ZA 2002-7110	20020904
NO 2002004235	A	20021105	NO 2002-4235	20020905
BG 107161	A	20030630	BG 2002-107161	20021002
PRIORITY APPLN. INFO.:			US 2000-187124P	P 20000306
			WO 2001-US2657	W 20010129

OTHER SOURCE(S): MARPAT 135:272982
GI



AB The title pyridopyrimidines I [R2 = H, alkyl, alkyl substituted with halo, HO, alkoxy, H2N, alkylamino, HO2C, cyano, (hetero)aryl, carbocyclyl containing O, S, N atoms (un)substituted with halo, HO, alkyl, etc.; R3 = H, alkyl, alkoxy, halo, F3C, cyano, NO2, R4CO, R4O2C, R4R5NCO, R4R5NSO2, R4SO2, P(O)(OR4)(OR5), etc.; Y = N, CR7; R9 = alkyl, haloalkyl, aryl; X, Z = H, halo, alkyl, alkoxy, F3C, HO, cyano, NO2, R4R5N, R4R5N(O), R4S, R4CO, R4O2C, R4R5NCO, T(CH2)mQR4, COT(CH2)mQR4, etc; m = 1-6; T = O, S, NR4, CR4R5; Q = O, S, NR4, CO2, carbocyclyl containing O, S, N atoms (un)substituted by HO, hydroxyalkyl, alkyl, alkoxy, alkoxy carbonyl, aminoalkyl, amino, etc., R7 = R4R5N, HO, R4O, R4S, R4CO, R4(CH3)n, R4SO2, R4O3S, CONR4SO2R5, CHO, NO2, T(CH2)mQR4, etc; n = 0-6; R4, R5 = H, alkyl, alkenyl, aryl, heteroaryl, etc; R4R5 with bonded N = carbocycle containing CO, O, S, SO, SO2, (un)substituted by halo, HO, hydroxyalkyl, alkyl, alkoxy, alkyl carbonyl, trifluoromethylalkyl, (hetero)aryl, NR10SO2R11, CONR10R11, CO2R10, etc; R4 also = alkyl (un)substituted by halo, 5-oxo-4,5-dihydro-1H-1,2,3-triazol-3-ylsulfonyl, carbocycle (un)substituted by halo, HO, hydroxyalkyl, alkyl, alkoxy, H2N, alkylamino, etc.; R10, R11 = H, halo, alkyl, alkoxy, alkoxy carbonyl, etc.] were prepared and have kinase and growth factor-mediated kinase inhibiting activity with use in treatment of cell proliferative disorders such as cancer and atherosclerosis. Thus, 4-(cyclopentylamino)-2-(methylthio)pyrimidine-5-carboxaldehyde underwent successive Grignard reaction with MeMgBr and N-methylmorpholine oxide/tetrapropylammonium perruthenate oxidation to give 1-[4-(cyclopentylamino)-2-(methylthio)-5-pyrimidinyl]ethanone. Cyclocondensation of the latter with tri-Et phosphonoacetate and then oxidation of the sulfide with trans-2-(phenylsulfonyl)-3-phenyloxaziridine gave the (methylsulfinyl)pyridopyrimidinone II which underwent

L13 ANSWER 114 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:708466 CAPLUS
 DOCUMENT NUMBER: 136:37489
 TITLE: Antitumor Agents. 211. Fluorinated 2-Phenyl-4-quinolone Derivatives as Antimitotic
 AUTHOR(S): Xia, Yi; Yang, Zheng-Yu; Xia, Peng; Hackl, Torben; Hamel, Ernest; Mauger, Anthony; Wu, Jiu-Hong; Lee, Kuo-Hsiung
 CORPORATE SOURCE: Division of Medicinal Chemistry and Natural Products School of Pharmacy, University of North Carolina, Chapel Hill, NC, 27599-7360, USA
 SOURCE: Journal of Medicinal Chemistry (2001), 44(23), 3932-3936
 CODEN: JMCUAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 136:37489
 AB Fluorinated 2-phenyl-4-quinolone derivs. were synthesized and evaluated in National Cancer Institute's 60 human tumor cell line in vitro screen. From the results, the ketone moiety plays an essential role in activity. Among the compds. tested, 2-(2-fluorophenyl)-6-pyrrol-1-yl-4-quinolone (I) exhibited the most potent cytotoxic activities (log GI50 < -8.00) against renal and melanoma tumor cell lines. I was also a potent inhibitor of tubulin polymerization (IC50 = 0.46 μM) and of radiolabeled colchicine binding to tubulin, with activities comparable to those of the potent antimitotic natural products colchicine, podophyllotoxin, and combretastatin A-4.
 IT 56915-84-5
 RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of 2-(2-fluorophenyl)-4-quinolinones as antimitotic agents)
 RN 56915-84-5 CAPLUS
 CN Ethanone, 1-[2-amino-5-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)

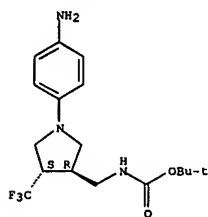


REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

substitution reaction with 4-[4-(tert-butoxycarbonyl)-1-piperazinyl]aniline and trifluoroacetic acid induced blocking group cleavage to give the (piperazinoanilino)pyridopyrimidinone III. III inhibited cyclin-dependent kinase-4 enzyme with IC50 0.007 μM.
 IT 362656-58-4
 RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of kinase inhibiting alkylpyridopyrimidinones useful for treatment of cell proliferative disorders)
 RN 362656-58-4 CAPLUS
 CN Carbamic acid, [(3R,4S)-1-[4-(aminophenyl)-4-(trifluoromethyl)-3-pyrrolidinyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

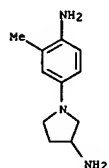
FORMAT

L13 ANSWER 115 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:693042 CAPLUS
 DOCUMENT NUMBER: 135:262002
 TITLE: Dyeing compositions for keratinous fibers containing para-phenylenediamine derivatives with pyrrolidinyl group
 INVENTOR(S): Vidal, Laurent; Terranova, Eric; Sabelle, Stephane
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: PCT Int. Appl., 73 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001068043	A2	20010920	WO 2001-FR745	20010313
WO 2001068043	A3	20020307		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2806299	A1	20010921	FR 2000-3250	20000314
FR 2806299	B1	20021220		
CA 2373670	AA	20010920	CA 2001-2373670	20010313
BR 2001005802	A	20020326	BR 2001-5802	20010313
EP 1200052	A2	20020502	EP 2001-913996	20010313
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003526647	T2	20030909	JP 2001-566510	20010313
RU 2223743	C2	20040220	RU 2001-133389	20010313
AU 774341	B2	20040624	AU 2001-39388	20010313
AU 2001039388	A5	20010924		
CN 1532193	A	20040929	CN 2004-10032201	20010313
US 2003093866	A1	20030522	US 2002-959913	20020409
PRIORITY APPLN. INFO.:			FR 2000-3250	A 20000314
			WO 2001-FR745	W 20010313

OTHER SOURCE(S): MARPAT 135:262002
 AB The invention concerns novel dyeing compns. for keratinous fibers comprising at least a paraphenylenediamine derivative with pyrrolidinyl group as oxidation base, a dyeing method and a dyeing kit using said composition. Thus, 1-(4-amino-3-methylphenyl)pyrrolidin-3-ol (I) was prepared by the hydrogenation of 1-(4-nitro-3-methylphenyl)pyrrolidin-3-ol (preparation given). An oxidative hair dye preparation contained 1 3x10-3, 2,4-diamino-1-(β-hydroxyethyloxy)benzene, dihydrochloride 3x10-3 mole, excipient and water q.s. 100 g. Equal amount of the composition is mixed with 6% hydrogen peroxide and applied on 90% white hair for 30 min, the hair is then rinsed, washed with shampoo, and dried to obtain a blue color.
 IT 361346-25-0P 361346-31-8P 361346-37-4P

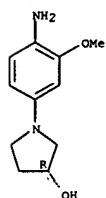
L13 ANSWER 115 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 361346-40-9P 361346-44-3P 361346-49-8P
 361346-53-4P 361346-57-8P 361346-61-4P
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (oxidative hair dyes contg. para-phenylenediamine derivs. with
 pyrrolidinyl group)
 RN 361346-25-0 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-amino-3-methylphenyl)-, dihydrochloride (9CI)
 (CA INDEX NAME)



● 2 HCl

RN 361346-31-8 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-3-methoxyphenyl)-, dihydrochloride, (3R)- (9CI)
 (CA INDEX NAME)

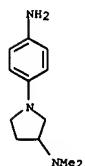
Absolute stereochemistry.



● 2 HCl

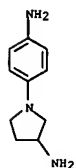
RN 361346-37-4 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-aminophenyl)-, dihydrochloride, (3R)- (9CI) (CA INDEX NAME)

L13 ANSWER 115 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● 2 HCl

RN 361346-49-8 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-, dihydrochloride (9CI) (CA INDEX NAME)

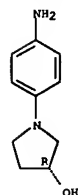


● 2 HCl

RN 361346-53-4 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-aminophenyl)-, hydrochloride (10:17) (9CI) (CA INDEX NAME)

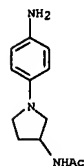
L13 ANSWER 115 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

Absolute stereochemistry.



● 2 HCl

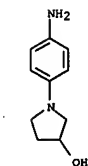
RN 361346-40-9 CAPLUS
 CN Acetamide, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-, dihydrochloride (9CI)
 (CA INDEX NAME)



● 2 HCl

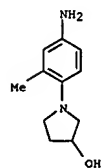
RN 361346-44-3 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-N,N-dimethyl-, dihydrochloride (9CI)
 (CA INDEX NAME)

L13 ANSWER 115 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



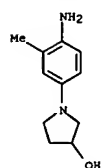
● 17/10 HCl

RN 361346-57-8 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-2-methylphenyl)-, dihydrochloride (9CI) (CA INDEX NAME)



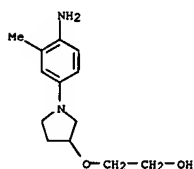
● 2 HCl

RN 361346-61-4 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-, dihydrochloride (9CI) (CA INDEX NAME)

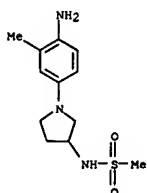


● 2 HCl

L13 ANSWER 116 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (oxidative hair dye prepn. contg. paraphenylenediamine derivs.)
 RN 143525-61-5 CAPLUS
 CN Ethanol, 2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]- (9CI) (CA INDEX NAME)



RN 143525-64-8 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

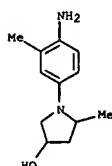


RN 228268-74-4 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-5-methyl- (9CI) (CA INDEX NAME)

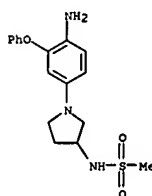
L13 ANSWER 116 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:676565 CAPLUS
 DOCUMENT NUMBER: 135:247001
 TITLE: Oxidation dyeing composition for keratinous fibers and dyeing method using same
 INVENTOR(S): Lang, Gerard
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: PCT Int. Appl., 51 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001066072	A1	20010913	WO 2001-FR663	20010306
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
FR 2805738	A1	20010907	FR 2000-2858	20000306
FR 2805738	B1	20030314		
CA 2373099	AA	20010913	CA 2001-2373099	20010306
EP 1181004	A1	20020227	EP 2001-913934	20010306
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
BR 2001005561	A	20020319	BR 2001-5561	20010306
AU 752948	B2	20021003	AU 2001-39341	20010306
JP 2003525889	T2	20030902	JP 2001-564725	20010306
ZA 2001008983	A	20020911	ZA 2001-8983	20011031
US 2003028977	A1	20030213	US 2002-959702	20020503
PRIORITY APPLN. INFO.:			FR 2000-2858	A 20000306
			WO 2001-FR663	W 20010306

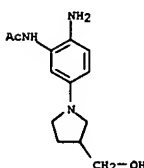
OTHER SOURCE(S): MARPAT 135:247001
 AB The invention concerns a ready-to-use oxidation dyeing composition for keratinous fibers, and in particular human keratinous fibers such as hair comprising, in a suitable dyeing medium, at least an oxidation base selected among certain substituted paraphenylenediamine derivs. and their addition salts with an acid, at least a second selected oxidation base, and the dyeing method using said composition. A hair dye composition contained 1-(4'-amino-3'-methylphenyl)-4-hydroxy-2-methyl-pyrrolidine dihydrochloride 2x10-3, 2-methyl-5-aminophenol 3x10-3, 4-amino-3-methylphenol 10-3 mole, and water q.s. 100 g. Equal amount of above composition is mixed with 20 volume peroxide and applied on the hair for 30 min, the hair is then rinsed, washed with a shampoo, rinsed, and dried to obtain a purple red color.
 IT 143525-61-5 143525-64-8 228268-74-4
 359841-39-7 359841-40-0



RN 359841-39-7 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



RN 359841-40-0 CAPLUS
 CN Acetamide, N-[2-amino-5-(3-(hydroxymethyl)-1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



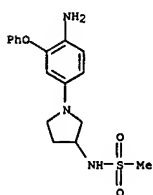
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 117 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2001:676564 CAPLUS
DOCUMENT NUMBER: 135:247000
TITLE: Oxidation dyeing composition for keratinous fibers comprising paraphenylenediamine derivatives and coupling agents
Lang, Gerard
INVENTOR(S): L'Oreal, Fr.
PATENT ASSIGNEE(S): PCT Int. Appl., 56 pp.
SOURCE: CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

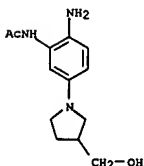
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001066071	A1	20010913	WO 2001-FR660	20010306
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TH, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2805737	A1	20010907	FR 2000-2857	20000306
FR 2805737	B1	20030103		
CA 2373097	AA	20010913	CA 2001-2373097	20010306
EP 1181005	A1	20020227	EP 2001-915449	20010306
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2001005562	A	20020319	BR 2001-5562	20010306
JP 2003525888	T2	20030902	JP 2001-564724	20010306
ZA 2001009069	A	20020613	ZA 2001-9069	20011102
US 2003009835	A1	20030116	US 2002-959704	20020208
US 6890362	B2	20050510		
PRIORITY APPLN. INFO.:			FR 2000-2857	A 20000306
			WO 2001-FR660	W 20010306

OTHER SOURCE(S): MARPAT 135:247000
AB The invention concerns a ready-to-use oxidation dyeing composition for keratinous fibers, and in particular human keratinous fibers such as hair comprising, in a suitable dyeing medium, at least an oxidation base selected among certain substituted paraphenylenediamine deriva. and their addition salts with an acid, at least a selected coupling agent, and the dyeing method using said composition. A hair dye composition contained 1-(4'-amino-3'-methylphenyl)-4-hydroxy-2-methyl-pyrrolidine dihydrochloride 3x10-3, 2,4-diamino-1-(β-hydroxyethyloxy)benzene 3x10-3, excipients and water q.s. 100 g. Equal amount of above composition is mixed with 20 volume hydrogen peroxide and applied on the hair for 30 min, the hair is then rinsed, washed with a shampoo, rinsed, and dried to obtain a blue color.
IT 143525-61-5 143525-64-8 228268-74-4
359841-39-7 359841-40-0
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

L13 ANSWER 117 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
RN 359841-39-7 CAPLUS
CN Methanesulfonamide, N-[1-(4-amino-3-phenoxyphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

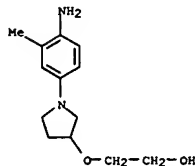


RN 359841-40-0 CAPLUS
CN Acetamide, N-(2-amino-5-[3-(hydroxymethyl)-1-pyrrolidinyl]phenyl)- (9CI) (CA INDEX NAME)

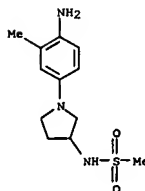


REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

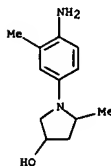
L13 ANSWER 117 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
(oxidn. dyeing compn. for keratinous fibers comprising paraphenylenediamine deriva. and coupling agents)
RN 143525-61-5 CAPLUS
CN Ethanol, 2-[(1-(4-amino-3-methylphenyl)-3-pyrrolidinyl)oxy]- (9CI) (CA INDEX NAME)



RN 143525-64-8 CAPLUS
CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



RN 228268-74-4 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-5-methyl- (9CI) (CA INDEX NAME)

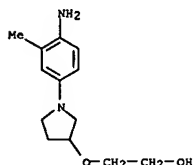


L13 ANSWER 118 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2001:676563 CAPLUS
DOCUMENT NUMBER: 135:246999
TITLE: Oxidation dyeing composition for keratinous fibers containing paraphenylenediamine derivatives and oxidants
Lang, Gerard
INVENTOR(S): L'Oreal, Fr.
PATENT ASSIGNEE(S): PCT Int. Appl., 44 pp.
SOURCE: CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

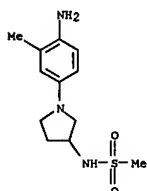
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001066070	A1	20010913	WO 2001-FR646	20010305
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TH, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2805739	A1	20010907	FR 2000-2860	20000306
FR 2805739	B1	20030110		
CA 2400464	AA	20010913	CA 2001-2400464	20010305
EP 1263399	A1	20021211	EP 2001-911848	20010305
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001009175	A	20030422	BR 2001-9175	20010305
JP 2003525887	T2	20030902	JP 2001-564723	20010305
US 2003167579	A1	20030911	US 2003-333664	20030410
PRIORITY APPLN. INFO.:			FR 2000-2860	A 20000306
			WO 2001-FR646	W 20010305

OTHER SOURCE(S): MARPAT 135:246999
AB The invention concerns a ready-to-use oxidation dyeing composition for keratinous fibers, and in particular human keratinous fibers such as hair comprising, in a suitable dyeing medium, at least an oxidation base selected among certain substituted paraphenylenediamine deriva. and their addition salts with an acid, at least an alkaline agent and hydrogen peroxide, and the dyeing method using said composition. A hair dye composition contained 1-(4'-amino-3'-methylphenyl)-4-hydroxy-2-methyl-pyrrolidine dihydrochloride 0.837, 2,4-diamino-1-(β-hydroxyethyloxy)-benzene 0.723, Oramix DG110 3.24, ethanol 18, polyethylene glycol-400 2.7, Dissolune D40 0.43, sodium metabisulfite 0.205, 20.5% ammonia 10, and water q.s. 100 g. Equal amount of above composition is mixed with 20 volume hydrogen peroxide and applied on the hair for 30 min, the hair is then rinsed, washed with a shampoo, rinsed, and dried to obtain a blue color.
IT 143525-61-5 143525-64-8 228268-74-4

L13 ANSWER 118 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 359841-39-7 359841-40-0 359841-69-3
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (oxidn. dyeing compn. for keratinous fibers contg.
 paraphenylenediamine
 derivs. and oxidants)
 RN 143525-61-5 CAPLUS
 CN Ethanol, 2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]- (9CI) (CA
 INDEX NAME)

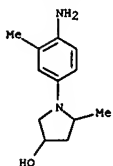


RN 143525-64-8 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)



RN 228268-74-4 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-5-methyl- (9CI) (CA INDEX
 NAME)

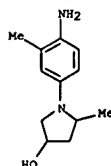
L13 ANSWER 118 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



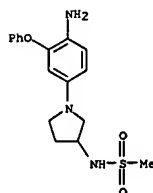
● 2 HCl

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
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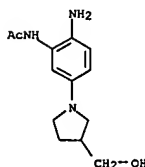
L13 ANSWER 118 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 359841-39-7 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-phenoxyphenyl)-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)



RN 359841-40-0 CAPLUS
 CN Acetamide, N-[2-amino-5-[3-(hydroxymethyl)-1-pyrrolidinyl]phenyl]- (9CI)
 (CA INDEX NAME)



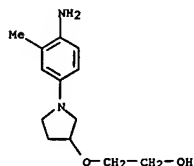
RN 359841-69-3 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-5-methyl-, dihydrochloride
 (9CI) (CA INDEX NAME)

L13 ANSWER 119 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:676562 CAPLUS
 DOCUMENT NUMBER: 135:246998
 TITLE: Oxidation dyeing composition for keratinous fibers
 comprising substituted paraphenylenediamine
 derivatives and polymers
 INVENTOR(S): Lang, Gerard
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: PCT Int. Appl., 71 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

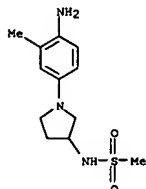
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001066069	A1	20010913	WO 2001-FR645	20010305
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PA, PE, PG, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2805740	A1	20010907	FR 2000-2861	20000306
FR 2805740	B1	20030905		
CA 2400459	AA	20010913	CA 2001-2400459	20010305
EP 1263398	A1	20021211	EP 2001-911847	20010305
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001009179	A	20030422	BR 2001-9179	20010305
JP 2003528054	T2	20030924	JP 2001-564722	20010305
US 2004088798	A1	20040513	US 2003-363147	20030911
PRIORITY APPLN. INFO.:			FR 2000-2861	A 20000306
			WO 2001-FR645	W 20010305

OTHER SOURCE(S): MARPAT 135:246998
 AB The invention concerns an oxidation dyeing composition for keratinous
 fibers, and
 in particular human keratinous fibers such as hair comprising, in a
 suitable dyeing medium, at least an oxidation base selected among certain
 substituted paraphenylenediamine deriva. and their addition salts with an
 acid, at least a polymer selected among amphoteric polymers, cationic
 polymers with specific repeat structural units, or amphiphilic polymers
 comprising at least a fatty chain, and the dyeing method using said
 composition
 A hair dye composition contained
 1-(4'-amino-3'-methylphenyl)-4-hydroxy-2-
 methyl-pyrrolidine dihydrochloride 0.837, 2,4-diamino-1-(β-
 hydroxyethoxy)-benzene 0.723, Miranol A15 1, and water and excipients
 q.s. 100 g. Equal amount of the composition is mixed with 20 volume
 hydrogen
 peroxide and applied on the hair for 30 min, the hair is then rinsed,
 washed with a shampoo, and rinsed with water and dried to obtain a blue
 color.
 IT 143525-61-5 143525-64-8 228268-74-4
 359841-39-7 359841-40-0 359841-69-3

L13 ANSWER 119 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (oxidative hair dyes comprising substituted paraphenylenediamine
 deriva. and polymers)
 RN 143525-61-5 CAPLUS
 CN Ethanol, 2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]- (9CI) (CA
 INDEX NAME)

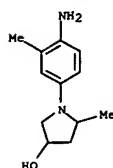


RN 143525-64-8 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)

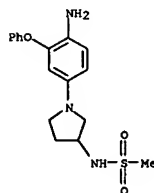


RN 228268-74-4 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-5-methyl- (9CI) (CA INDEX
 NAME)

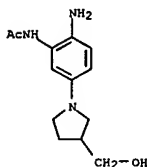
L13 ANSWER 119 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 359841-39-7 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-phenoxypheyl)-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)

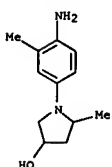


RN 359841-40-0 CAPLUS
 CN Acetamide, N-[2-amino-5-(3-(hydroxymethyl)-1-pyrrolidinyl)phenyl]- (9CI)
 (CA INDEX NAME)



RN 359841-69-3 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-5-methyl-, dihydrochloride
 (9CI) (CA INDEX NAME)

L13 ANSWER 119 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● 2 HCl

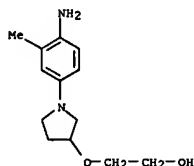
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 120 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:676561 CAPLUS
 DOCUMENT NUMBER: 135:246997
 TITLE: Oxidation dyeing composition for keratinous fibers
 with a particular paraphenylenediamine derivative and
 a particular direct dyeing agent
 INVENTOR(S): Lang, Gerard
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: PCT Int. Appl., 49 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

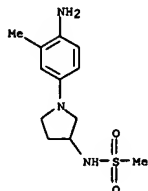
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001066068	A1	20010913	WO 2001-FR644	20010305
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
FR 2805741	A1	20010907	FR 2000-2862	20000306
FR 2805741	B1	20030620		
CA 2400456	AA	20010913	CA 2001-2400456	20010305
BR 2001009021	A	20021126	BR 2001-9021	20010305
EP 1263397	A1	20021211	EP 2001-911846	20010305
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2003528053	T2	20030924	JP 2001-564721	20010305
US 2003159221	A1	20030828	US 2003-333663	20030410
PRIORITY APPLN. INFO.:			FR 2000-2862	A 20000306
			WO 2001-FR644	W 20010305

OTHER SOURCE(S): MARPAT 135:246997
 AB The invention concerns an oxidation dyeing composition for keratinous fibers, and in particular human keratinous fibers such as hair comprising, in a medium suitable for dyeing, at least an oxidation base selected among certain substituted paraphenylenediamine deriva. and their addition salts with an acid, and at least a synthetic direct dyeing agent selected among the azo, quinoid, triarylmethane, indoamino, azine dyes and/ or a natural dye. The invention also concerns a dyeing method using said composition A hair dye composition contained 1-(4'-amino-3'-methylphenyl)-4-hydroxy-2-methyl-pyrrolidine dihydrochloride 0.837, 2,4-diamino-1-(β-hydroxyethyloxy)-benzene 0.723, Mitanol A15 1, and water and excipients q.s. 100 g. Equal amount of above composition is mixed with 20 volume hydrogen peroxide and applied on the hair for 30 min, the hair is then rinsed, washed with a shampoo, rinsed and dried to obtain a blue color.
 IT 143525-61-5 143525-64-8 228268-74-4

L13 ANSWER 120 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 359841-39-7 359841-40-0 359841-69-3
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (oxidative hair dyes contg. paraphenylenediamine derivs. direct dyes)
 RN 143525-61-5 CAPLUS
 CN Ethanol, 2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]- (9CI) (CA
 INDEX NAME)

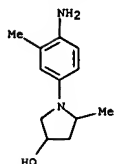


RN 143525-64-8 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)



RN 228268-74-4 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-5-methyl- (9CI) (CA INDEX
 NAME)

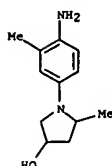
L13 ANSWER 120 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



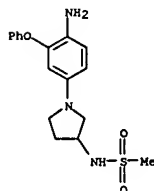
● 2 HC1

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
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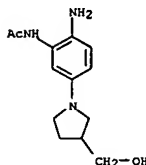
L13 ANSWER 120 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 359841-39-7 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-phenoxypheyl)-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)



RN 359841-40-0 CAPLUS
 CN Acetamide, N-[2-amino-5-[3-(hydroxymethyl)-1-pyrrolidinyl]phenyl]- (9CI)
 (CA INDEX NAME)

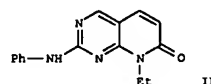
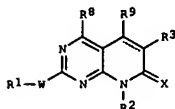


RN 359841-69-3 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-5-methyl-, dihydrochloride
 (9CI) (CA INDEX NAME)

L13 ANSWER 121 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:565041 CAPLUS
 DOCUMENT NUMBER: 135:152818
 TITLE: Preparation of 2-amino-8H-pyrido[2,3-d]pyrimidin-7-ones as cyclin dependent kinase inhibitors for treatment of neurodegenerative disease
 INVENTOR(S): Booth, Richard John; Chatterjee, Arindam; Malone, Thomas Charles
 PATENT ASSIGNEE(S): Warner-Lambert Company, USA
 SOURCE: PCT Int. Appl., 232 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001055148	A1	20010802	WO 2000-US32572	20001130
W: AE, AG, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LR, LT, LV, MA, MG, MK, MN, MX, NZ, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, ND, RU, TJ, TN				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2394525	AA	20010802	CA 2000-2394525	20001130
BR 2000017075	A	20021105	BR 2000-17075	20001130
EP 1255755	A1	20021113	EP 2000-980883	20001130
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003523358	T2	20030805	JP 2001-561007	20001130
US 2004224958	A1	20041111	US 2002-181866	20021112
PRIORITY APPLN. INFO.:			US 2000-178400P	P 20000127
			WO 2000-US32572	W 20001130

OTHER SOURCE(S): MARPAT 135:152818
 GI

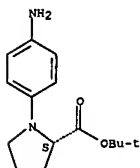


AB This invention provides a method for treating neurodegenerative diseases in mammals comprising administering an effective amount of a cyclin-dependent kinase (cdk) inhibitor (I) wherein W = NH, S, SO, or SO2; X = O or NH; R1 and R2 = independently H or (un)substituted (CH2)nAr, (CH2)nheteroaryl, (CH2)nheterocyclyl, (cyclo)alkyl, alkenyl, or alkynyl; R3 = H or alkyl; R4 and R5 = independently H, (un)substituted alkyl, alkenyl, alkynyl, (CH2)nAr, cycloalkyl, heterocyclyl, or heteroaryl; or R4

L13 ANSWER 121 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
and R5 together with the N to which they are attached may form a heterocycle; R6 = alkyl; R8 and R9 = independently H, (thio)alkyl, NR4R5, N(O)R4R5, NR4R5R6, OH, alkoxy, SH, halo, COR4, CO2R4, CONR4R5, SO2NR4R5, SO3R4, PO3R4, CHO, CN, or NO2; Y = halo counterion; n = 0-3]. Examples include preps. and/or enzyme assay data for over 600 invention compds. For instance, 4-ethylamino-2-phenylaminopyrimidine-5-carboxaldehyde (multi-step prepn. given) was heated with (carbethoxymethylene)triphenylphosphorane at reflux to give the acrylate (861), which was cyclized using 1,8-diazabicyclo[5.4.0]undec-7-ene in TEA to afford II. The latter inhibited cdk4/D, cdk2/E, cdk2/A, cdk1/B, and cdk5 with IC50 values of 0.752 µM, 0.41 µM, 0.129 µM, 1.015 µM, and 0.065 µM, resp. Due to their relative selectivity for inhibition of cdk5 over other cdk enzymes, I are particularly useful for the treatment of neurodegenerative diseases.

IT 211247-49-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (Preparation of 2-amino-8H-pyrido[2,3-d]pyrimidinones as cyclin-dependent kinase inhibitors by cyclization of 3-[2-(methylsulfinyl)-4-aminopyrimidin-5-yl]acrylates or acrylonitriles)
RN 211247-49-3 CAPLUS
CN L-Proline, 1-(4-aminophenyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

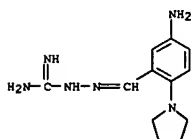
L13 ANSWER 122 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:563780 CAPLUS
DOCUMENT NUMBER: 135:138694
TITLE: Oxidation bases with a guanidine chain, process for their preparation, their use for oxidation dyeing of keratinous fibers, dyeing compositions and dyeing processes
INVENTOR(S): Bordier, Thierry; Philippe, Michel
PATENT ASSIGNEE(S): L'Oreal S.A., Fr.
SOURCE: Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1120405	A2	20010801	EP 2001-400112	20010116
EP 1120405	A3	20021127		
EP 1120405	B1	20041027		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2804428	A1	20010803	FR 2000-1055	20000127
FR 2804428	B1	20020322		
AT 280754	E	20041115	AT 2001-400112	20010116
ES 2231395	T3	20050516	ES 2001-1400112	20010116
CA 2332506	AA	20010727	CA 2001-2332506	20010125
CA 2332506	C	20051115		
JP 2001240587	A2	20010904	JP 2001-18269	20010126
JP 3696096	B2	20050914		
US 2001034913	A1	20011101	US 2001-770471	20010129
US 6652600	B2	20031125		
PRIORITY APPLN. INFO.:			FR 2000-1055	A 20000127

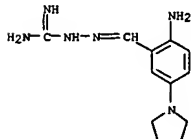
OTHER SOURCE(S): CASREACT 135:138694; MARPAT 135:138694
AB The bases useful for dyeing keratinous fibers and especially human hairs, are benzene compds. bearing guanidine groups such as CH2(X1)(X2)AN:C(NH2)2 (X1, X2 = OH, NHR1, NR1R2 provided that X1 and X2 are not OH group at the same time; R1, R2 = H, Cl-8 alkyl, Cl-8 monohydroxyalkyl, C2-8 polyhydroxyalkyl, C2-8 aminoalkyl, Cl-4 monoalkyl-Cl-4 aminoalkyl, etc.;

A = divalent linking groups of -CH=N- or -CH2NH-; Z = H, halogen, other substituents, etc.) or their acid salts. Thus, mixing a dissoln. of 9 g 2-hydroxy-5-nitrobenzylideneaminoguanidine in 200 ml EtOH with 5.95 g aminoguanidine hydrochloride and 7.6 mL triethylamine and heating at 45° for 3 h gave 2-hydroxy-5-nitrobenzylideneaminoguanidine monohydrate which was converted into a 5-amino-2-hydroxybenzylideneaminoguanidine dihydrochloride salt by nitro group reduction and salt forming with HCl solution
IT 352230-14-9P 352230-15-OP
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (basic dye; oxidation bases with a guanidine chain, process for preparation, use for oxidation dyeing of keratinous fibers, dyeing compns. and dyeing processes)
RN 352230-14-9 CAPLUS

L13 ANSWER 122 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Hydrazinecarboximidamide, 2-[[5-amino-2-(1-pyrrolidinyl)phenyl]methylene]- (9CI) (CA INDEX NAME)



RN 352230-15-0 CAPLUS
CN Hydrazinecarboximidamide, 2-[[2-amino-5-(1-pyrrolidinyl)phenyl]methylene]- (9CI) (CA INDEX NAME)



L13 ANSWER 123 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:559555 CAPLUS
DOCUMENT NUMBER: 135:141958
TITLE: 1-(2,5-diaminophenyl)ethanol for oxidative hair dyeing
INVENTOR(S): Pan, Yuh-Guo; Stasaitis, Linas R.; Lim, Mu-Il
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA; P&G-Claireol, Inc.
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1120105	A2	20010801	EP 2001-200241	20010123
EP 1120105	A3	20011219		
EP 1120105	B1	20050727		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6342079	B1	20020129	US 2000-491717	20000127
WO 2001054656	A1	20010802	WO 2001-US1750	20010119
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CN, CR, CU, CZ, DM, DZ, EE, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LV, MA, MD, MG, MK, MN, MW, MZ, NZ, PL, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, HR, NE, SN, TD, TG				
JP 2001253857	A2	20010918	JP 2001-13198	20010122
AT 300276	E	20050815	AT 2001-200241	20010123
CA 2332172	AA	20010727	CA 2001-2332172	20010125
PRIORITY APPLN. INFO.:			US 2000-491717	A 20000127

AB 1-(2,5-Diaminophenyl)ethanol (I) useful as a primary intermediate for the oxidative dyeing of hair. Thus, a composition contained cocoamidopropyl betaine 17.0, monoethanolamine 2.0, oleic acid 0.75, citric acid 0.1, NH4OH 5.0, behenrimonium chloride 0.5, sodium sulfite 0.1, EDTA 0.1, erythorbic acid 0.4, ethoxydiglycol 3.5, Tergitol 15-S-9 1.0, Neodol 25-3 0.5, isopropanol 4.0, propylene glycol 2.0, I 0.38, 2,4-diaminophenoxyethanol sulfate 0.665 and water to 100%. This composition

was mixed with 100 g 20 volume H2O2 and the resulting mixture was applied onto hair and left in contact for 30 min. The color of the dyed hair was blue.

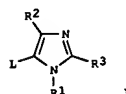
IT 2632-65-7
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (diaminophenylethanol for oxidative hair dyeing)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 124 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:552763 CAPLUS
 DOCUMENT NUMBER: 135:144709
 TITLE: Thermal printing material containing diazonium salt for forming magenta image
 INVENTOR(S): Yamada, Hisao; Mitamura, Yasuhiro; Fujita, Akinori; Matsushita, Akinori; Ikeda, Takayoshi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 38 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001205937	A2	20010731	JP 2000-19019	20000127
PRIORITY APPLN. INFO.:			JP 2000-19019	20000127

OTHER SOURCE(S): MARPAT 135:144709
 GI



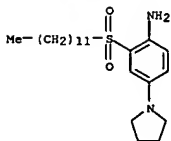
AB The material has a heat-sensitive recording layer containing a diazonium salt and an imidazole-type coupler, for coloring under heat, represented as I (R1 = H, aryl, alkyl, heterocycle, acyl, carbamoyl, alkoxy, carbonyl, aryloxy, sulfonyl, sulfamoyl, alkylsulfonyl, arylsulfonyl; R2 = H, aryl, alkyl, heterocycle, acyl, carbamoyl, alkoxy, carbonyl, aryloxy, sulfonyl, sulfamoyl, alkylsulfonyl, arylsulfonyl, acyloxy, alkoxy, aryloxy, alkylthio, arylthio, amino, OH; R3 = NHR4, CHR5R6; R4 = H, aryl, alkyl, heterocycle, acyl, carbamoyl, alkoxy, carbonyl, aryloxy, sulfonyl, sulfamoyl, alkylsulfonyl, arylsulfonyl, CN, alkylphosphoryl, arylphosphoryl; R5 or R6

is substituent with Hammett substitution constant σ_p 0.3-1.5 and the rest is H, aryl, heterocycle, or substituent with σ_p 0.3-1.5; L = H, group leaving in coupling with diazonium salt). The material provides a red-to-violet image with light resistance.

IT 219648-47-2P, 2-Dodecylsulfonyl-4-pyrrolidinoniline
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation);

RACT (Reactant or reagent)
 (intermediate; thermal printing material containing imidazole-type coupler and diazonium coupler from)

RN 219648-47-2 CAPLUS
 CN Benzenamine, 2-(dodecylsulfonyl)-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 125 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:545674 CAPLUS
 DOCUMENT NUMBER: 135:137516
 TITLE: Synthesis of heteroarylbenzamides and analogs used for

inhibiting protein kinases
 INVENTOR(S): Bender, Steven Lee; Bhuralkar, Dilip; Collins, Michael Raymond; Cripps, Stephen James; Deal, Judith Gail; Nambu, Mitchell David; Palmer, Cynthia Louise; Peng, Zhengwei; Varney, Michael David; Jia, Lei
 PATENT ASSIGNEE(S): Agouron Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 237 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001053274	A1	20010726	WO 2001-US1723	20010119
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BE, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2394703	AA	20010726	CA 2001-2394703	20010119
US 2002103203	A1	20020801	US 2001-764306	20010119
US 6635641	B2	20031021		
EP 1252146	A1	20021030	EP 2001-906592	20010119
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001008025	A	20021105	BR 2001-8025	20010119
JP 2003529558	T2	20031007	JP 2001-553276	20010119
US 2004092747	A1	20040513	US 2003-621979	20030717
PRIORITY APPLN. INFO.:				P 29000121
				US 2000-177059P
				US 2001-764306
				A3 20010119
				WO 2001-US1723
				W 20010119

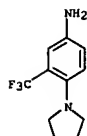
OTHER SOURCE(S): MARPAT 135:137516
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

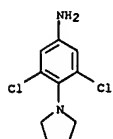
AB Title compds. I [Z = CH, NH; Q = moiety such that ring A is (un)substituted mono- or bicyclic heteroaryl which has at least 2 carbon atoms in the heteroaryl ring system; X = CH2, O, S, NH; Y = CH2, O, S, provided at least one of X and Y = CH2 or X and Y form a cyclopropyl ring; R2-3 = H, Me, halo, CF3, CN; R4 = CONHR5, NHCOR6; where R5 = (un)substituted aryl, heteroaryl, cycloalkyl, etc.; R6 = (un)substituted aryl, heteroaryl, cycloalkyl, etc.] are prepared. Examples include synthetic

L13 ANSWER 125 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
procedures for over 150 compds., 11 biol. assays and 3 sample
formulations. For instance, 3-mercaptobenzoic acid was treated with
 α -chloro-N-methoxy-N-methylacetamide followed by carbodiimide
coupling to 2-methyl-6-aminoquinoline to give II. II was converted to a
 β -thiono-ketone with thioacetanilide/n-BuLi followed by treatment
with hydrazine to give pyrazole III. III gave 85% inhibition of an ick
protein tyrosine kinase at 5 μ M and had K_i = 2.21 nM for
VEGF-R2A50. Treatment of cancer as well as other disease states
assocd. with unwanted angiogenesis and/or cellular proliferation, such as
diabetic retinopathy, neovascular glaucoma, rheumatoid arthritis, and
psoriasis are claimed uses of the invention.

IT 16085-45-3 85984-34-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of heteroarylbenzamides used for inhibiting protein
kinases)
RN 16085-45-3 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)-3-(trifluoromethyl)- (9CI) (CA INDEX
NAME)



RN 85984-34-5 CAPLUS
CN Benzenamine, 3,5-dichloro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



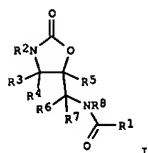
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 126 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:488530 CAPLUS
DOCUMENT NUMBER: 135:92625
TITLE: Preparation of 5-acylaminothioxazolidin-2-ones as
Factor Xa inhibitors.
INVENTOR(S): Straub, Alexander; Lampe, Thomas; Pohlmann, Jens;
Roehrig, Susanne; Perzborn, Elisabeth; Schlemmer,
Karl-Heinz
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 34 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19962924	A1	20010705	DE 1999-19962924	19991224
CA 2396561	AA	20010705	CA 2000-2396561	20001211
WO 2001047919	A1	20010705	WO 2000-EP12492	20001211
WO 2001047919	C2	20021219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CH, GA, GN, GW, ML, MR, NE, SN, TD, TG				
TR 200201636	T2	20021021	TR 2002-200201636	20001211
BR 2000017050	A	20021105	BR 2000-17050	20001211
EP 1261606	A1	20021204	EP 2000-993610	20001211
EP 1261606	B1	20050223		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003519141	T2	20030617	JP 2001-549389	20001211
EE 200200341	A	20031015	EE 2002-341	20001211
AU 775126	B2	20040715	AU 2001-28414	20001211
TR 200401314	T2	20040823	TR 2004-200401314	20001211
NZ 519730	A	20050225	NZ 2000-519730	20001211
AT 289605	E	20050315	AT 2000-993610	20001211
EP 1526132	A2	20050427	EP 2004-27037	20001211
EP 1526132	A3	20050831		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PT 1261606	T	20050729	PT 2000-993610	20001211
ES 2237497	T3	20050801	ES 2000-993610	20001211
TW 226330	B1	20050111	TW 2000-89127307	20001220
ZA 2002004188	A	20030527	ZA 2002-4188	20020527
BG 106825	A	20030228	BG 2002-106825	20020614
NO 2002003043	A	20020814	NO 2002-3043	20020621
US 2003153610	A1	20030814	US 2002-181051	20020624
JP 2005068164	A2	20050317	JP 2004-358908	20041210
PRIORITY APPLN. INFO.:				
			EP 2000-993610	A3 20001211
			JP 2001-549389	A3 20001211

L13 ANSWER 126 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
WO 2000-EP12492 W 20001211

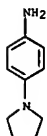
OTHER SOURCE(S): MARPAT 135:92625
GI



AB Title compds. [I; R1 = (substituted) thienyl, benzothienyl; R2 = organic
residue; R3-R8 = H, alkyl; with exceptions], were prepared Thus,

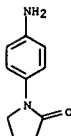
(5S)-5-(aminomethyl)-3-(3-fluoro-4-morpholinophenyl)-1,3-oxazolidin-2-one,
5-chlorothiophene-2-carboxylic acid, hydroxybenzotriazole, EDCI, and
diisopropylethylamine were stirred overnight in DMF to give 61.5%
5-chloro-N-[[[(5S)-3-(3-fluoro-4-morpholinophenyl)-2-oxo-1,3-oxazolidin-5-
yl]methyl]-2-thiophenecarboxamide.
5-Chloro-N-[[[(5S)-2-oxo-3-[4-(2-oxo-1-
pyrrolidinyl)phenyl]-1,3-oxazolidin-5-yl]methyl]-2-thiophenecarboxamide
(preparation given) inhibited Factor Xa with IC50 = 4 nM.

IT 2632-65-7 13691-22-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 5-acylaminothioxazolidin-2-ones as Factor Xa
inhibitors)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 13691-22-0 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

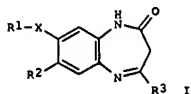
L13 ANSWER 126 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 127 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:311709 CAPLUS
DOCUMENT NUMBER: 135:46435
TITLE: Syntheses and activity of μ -Conotoxin analogs with a modified amino acid
AUTHOR(S): Nakamura, Mitsuhiro; Ishida, Yukisato; Kohno, Toshitsuki; Sato, Kazuki; Nakamura, Hideshi
CORPORATE SOURCE: Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, 464-8601, Japan
SOURCE: Peptide Science (2001), Volume Date 2000, 37th, 85-88
CODEN: PSCIFQ; ISSN: 1344-7661
PUBLISHER: Japanese Peptide Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A symposium report of the authors' work. μ -Conotoxin GIIIA preferentially blocks skeletal muscle sodium channels by binding at an outer vestibule of ion channel thorough both electrostatic and non-electrostatic interaction between pos. charged GIIIA amino acids and neg. charged channel portions. We synthesized analogs of GIIIA in which Thr-5 was replaced with Cys or Lys(biotinyl). The [Cys5] GIIIA analog allowed us to introduce various types of tags into GIIIA for studying the funnel-shaped structure of outer vestibule of muscle skeletal sodium channel. The inhibitory activity of GIIIA was modulated with the introduced tag group, suggesting that the analogs are useful to analyze the pore structure of sodium channels.
IT 344913-19-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
on (preparation of modified μ -conotoxin GIIIA and study of its effects on skeletal muscle sodium channels)
RN 344913-19-5 CAPLUS
CN L-Alaninamide, L-arginyl-L- α -aspartyl-L-cysteinyl-L-cysteinyl-S-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-L-cysteinyl-(4R)-4-hydroxy-L-prolyl-(4R)-4-hydroxy-L-prolyl-L-lysyl-L-lysyl-L-cysteinyl-L-lysyl-L- α -aspartyl-L-arginyl-L-glutaminy-L-cysteinyl-L-lysyl-(4R)-4-hydroxy-L-prolyl-L-glutaminy-L-arginyl-L-cysteinyl-L-cysteinyl-, cyclic (3-15), (4-20), (10-21)-tris(disulfide) (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

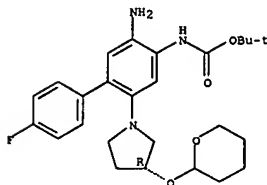
L13 ANSWER 128 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:300692 CAPLUS
DOCUMENT NUMBER: 134:311234
TITLE: Preparation of benzodiazepine derivatives as metabotropic glutamate receptor antagonists
INVENTOR(S): Adam, Geo; Alanine, Alexander; Goetschi, Erwin; Mutel, Vincent; Woltering, Thomas Johannes
PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.
SOURCE: PCT Int. Appl., 140 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
PATENT NO. KIND DATE APPLICATION NO. DATE
WO 2001029011 A2 20010426 WO 2000-EP9553 20000929
W: AL, AU, AT, AU, AE, BA, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
CA 2386974 A 20010426 CA 2000-2386974 20000929
EP 1224174 A 20020716 BR 2000-14859 20000929
EP 1224174 A2 20020724 EP 2000-969347 20000929
EP 1224174 B1 20030917
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, NK, CY, AL
TR 200201023 T2 20020923 TR 2002-200201023 20000929
JP 2003512359 E 20030402 JP 2001-531811 20000929
AT 250039 T 20031015 AT 2000-969347 20000929
PT 1224174 T 20040130 PT 2000-969347 20000929
ES 2204704 T3 20040501 ES 2000-969347 20000929
AU 774451 B2 20040624 AU 2000-79102 20000929
NZ 517999 A 20040730 NZ 2000-517999 20000929
RU 2259360 C2 20050827 RU 2002-110104 20000929
US 6407094 B1 20020618 US 2000-687240 20001013
ZA 200202544 A 20030630 ZA 2002-2544 20020328
NO 2002001690 A 20020410 NO 2002-1690 20020410
HK 1051038 A1 20050722 HK 2003-102802 20030417
PRIORITY APPLN. INFO.: EP 1999-120520 A 19991015
WO 2000-EP9553 W 20000929
OTHER SOURCE(S): MARPAT 134:311234
GI

L13 ANSWER 128 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB The title compds. [I: X is a single bond or an ethynediyl group; wherein, in case X is a single bond, R1 is halogen or (un)substituted phenyl; in case X is an ethynediyl group, R1 is (un)substituted phenyl; R2 is halogen, hydroxy, lower alkyl, lower haloalkyl, lower alkoxy, hydroxymethyl, hydroxyethoxy, lower alkoxy(ethoxy)n (n = 1 to 4), lower alkoxyethyl, cyanomethoxy, morpholin-4-yl, thiomorpholin-4-yl, 1-oxothiomorpholin-4-yl, 1,1-dioxothiomorpholin-4-yl, 4-oxopiperidin-1-yl, 4-alkoxy-piperidin-1-yl, 4-hydroxypiperidine-1-yl, 4-hydroxyethoxypiperidin-1-yl, 4-lower alkylpiperazine-1-yl, alkoxy-carbonyl, 2-dialkylaminoethylthio, N,N-bis(lower alkyl)amino-lower alkyl, carbamoylmethyl, alkylsulfonyl, etc.; R3 is (un)substituted 5 or 6 membered aryl or heteroaryl, etc.] and their pharmaceutically acceptable addition salts are prepared. These compds. can be used for treating or preventing acute and/or chronic neurol. disorders such as psychosis, schizophrenia, Alzheimer's disease, cognitive disorders and memory deficits. Thus, a mixture of (5-amino-2-tert-butoxy-2',5'-difluorobiphenyl-4-yl)carbamic acid tert-Bu ester and 3-(2,2-dimethyl-6-oxo-6H-[1,3]dioxin-4-yl)benzotrile in toluene was refluxed to give [2-tert-butoxy-5-([3-(3-cyanophenyl)-3-oxo-propionyl]amino)-2',5'-difluorobiphenyl-4-yl]carbamic acid tert-Bu ester which was treated with CF3CO2H in CH2Cl2 to give 3-[7-(2,5-difluorophenyl)-8-hydroxy-4-oxo-4,5-dihydro-3H-benzo[b][1,4]diazepin-2-yl]benzotrile (II). It in vitro inhibited the binding of [3H]-LV354740 binding on mGlu2 receptor transfected CHO cell membranes with Ki of 0.006 μ M.
IT 335351-18-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate, preparation of benzodiazepine derivs. as metabotropic glutamate receptor antagonists for treating or preventing acute and/or chronic neurol. disorders)
RN 335351-18-3 CAPLUS
CN Carbamic acid, [5-amino-4'-fluoro-2-[(3R)-3-[(tetrahydro-2H-pyran-2-yl)oxy]-1-pyrrolidinyl][1,1'-biphenyl]-4-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
Absolute stereochemistry.

L13 ANSWER 128 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

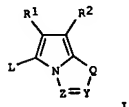


L13 ANSWER 129 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:270316 CAPLUS
 DOCUMENT NUMBER: 134:303092
 TITLE: Thermal recording materials showing excellent magenta coloring properties
 INVENTOR(S): Mitamura, Yasuhiro; Kawafuchi, Tatsuo; Ikeda, Kimi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 45 pp.
 CODEN: JIOKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001105743	A2	20010417	JP 1999-288617	19991008

PRIORITY APPLN. INFO.: JP 1999-288617 19991008

OTHER SOURCE(S): MARPAT 134:303092
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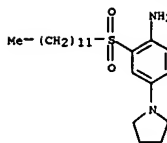


AB The recording layer of the material, formed on a support, contains a diazonium salt and Z1 couplers selected from I (R1-2 = H, substitution group, may form rings, etc.; L = H, functional group released on coupling reaction; Q, Y, Z = N, C with optional substitution of C when Q, Y, or Z is N and the rest is C or when Y = Z = N and Q = C; Rs = substitution group, may form rings, etc.) and its tautomers which colors by thermal reaction with the diazonium salt. Markush structures for preferred diazonium salts are also given. The diazonium salts may be microencapsulated in polyurethanes and/or polyureas. The materials show excellent color reproducibility and images with excellent fastness.

IT 219648-47-2P, 2-Dodecylsulfonyl-4-pyrrolidinylaniline
 RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (thermal recording materials containing condensed N-heterocycles as couplers for good magenta coloring)

RN 219648-47-2 CAPLUS
 CN Benzenamine, 2-(dodecylsulfonyl)-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 129 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

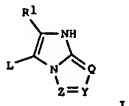


L13 ANSWER 130 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2001:270315 CAPLUS
 DOCUMENT NUMBER: 134:303091
 TITLE: Thermal recording materials showing excellent magenta coloring properties
 INVENTOR(S): Mitamura, Yasuhiro; Yanagihara, Naoto; Ikeda, Takayoshi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 48 pp.
 CODEN: JIOKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001105742	A2	20010417	JP 1999-288486	19991008

PRIORITY APPLN. INFO.: JP 1999-288486 19991008

OTHER SOURCE(S): MARPAT 134:303091
 GI

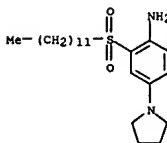


AB The recording layer of the material, formed on a support, contains a diazonium salt and Z1 couplers selected from I (R1, Rs = H, substitution group, may form bonds in I; L = H, functional group released on coupling reaction; Q, Y, Z = N, C, CRs) and its tautomers which colors by thermal reaction with the diazonium salt. Markush structures for preferred diazonium salts are also given. The diazonium salts may be microencapsulated in polyurethanes and/or polyureas. The materials show excellent color reproducibility and images with excellent fastness.

IT 219648-47-2P
 RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (thermal recording materials containing condensed N-heterocycles as couplers for good magenta coloring)

RN 219648-47-2 CAPLUS
 CN Benzenamine, 2-(dodecylsulfonyl)-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 130 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 131 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:208274 CAPLUS
DOCUMENT NUMBER: 134:237498
TITLE: Preparation of pteridinones as kinase inhibitors
INVENTOR(S): Denny, Williams Alexander; Dobrusin, Ellen Myra; Kramer, James Bernard; Mc Namara, Dennis Joseph; Newcastle, Gordon William; Showalter, Howard Daniel; Hollis; Toogood, Peter Laurence
PATENT ASSIGNEE(S): Warner-Lambert Co., USA
SOURCE: PCT Int. Appl., 116 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001019825	A1	20010322	WO 2000-US17037	20000621
W: AE, AG, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CR, CU, CZ, DM, DE, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MV, MW, MX, MY, NZ, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2393896	AA	20010322	CA 2000-2393896	20000621
BR 2000013952	A	20020514	BR 2000-13952	20000621
JP 2003509425	T2	20030311	JP 2001-523402	20000621
EE 200200140	A	20030415	EE 2002-140	20000621
NZ 516872	A	20031031	NZ 2000-516872	20000621
EP 1409487	A1	20040421	EP 2000-941604	20000621
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
AU 777468	B2	20041021	AU 2000-56295	20000621
ZA 2002000896	A	20030430	ZA 2002-896	20020131
US 2003130286	A1	20030710	US 2002-70530	20020306
NO 2002001239	A	20020313	NO 2002-1239	20020313
BS 106594	A	20021229	BG 2002-106594	20020410
PRIORITY APPLN. INFO.:			US 1999-154095P	P 19990915
			WO 2000-US17037	W 20000621

OTHER SOURCE(S): MARPAT 134:237498
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

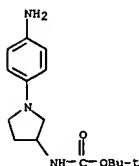
AB The title compds. of formulas I, II, III and IV [W = NH, S, SO, SO₂; R₂ = (un)substituted aryl, heteroaryl, carbocycle, heterocycle; Q = H, alkyl; R₄, R₆, R₉ = H, halogen, alkyl, alkoxy, (un)substituted aryl, heteroaryl, arylalkyl, heteroarylalkyl; R₈ = H, alkyl, (un)substituted carbocycle, heterocycle, aryl etc.] and their pharmaceutically acceptable salts, inhibitors of cyclin-dependent kinase (cdk) and growth factor-mediated kinases, and useful for treating cell proliferative disorders, such as cancer and restenosis, were prepared Thus, pteridinone derivative V was prepared by reaction of 5-amino-4-(methylamino)-2-[[4-(morpholin-4-

L13 ANSWER 132 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:185755 CAPLUS
DOCUMENT NUMBER: 134:222713
TITLE: Preparation of imidazopyridines as GABAA receptor ligands
INVENTOR(S): Hallett, David James; Rowley, Michael
PATENT ASSIGNEE(S): Merck Sharp & Dohme Limited, UK
SOURCE: PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001018000	A1	20010315	WO 2000-GB3350	20000830
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2384048	AA	20010315	CA 2000-2384048	20000830
EP 1214319	A1	20020619	EP 2000-956700	20000830
EP 1214319	B1	20031126		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
AT 255109	E	20031215	AT 2000-956700	20000830
ES 2209963	T3	20040701	ES 2000-956700	20000830
AU 776815	B2	20040923	AU 2000-68567	20000830
US 6723735	B1	20040420	US 2002-70026	20020225
PRIORITY APPLN. INFO.:			GB 1999-21150	A 19990907
			WO 2000-GB3350	W 20000830

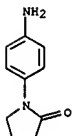
OTHER SOURCE(S): MARPAT 134:222713
AB R32C6H4(2IR)-3 [Z = 3H-imidazo[4,5-b]pyridine-6,3-diyl][I; R = NR1R2, aryl, heteroaryl(alkyl), etc.; R1,R2 = H, hydrocarbyl, heterocyclyl; NR1R2 = heterocyclyl; R3 = (un)substituted (hetero)aryl; Z1 = bond, CH₂, CO, CONH, etc.] were prepared Thus, 5-bromo-2-chloro-3-nitropyridine (preparation given) was aminated by 3-(3-pyridyl)aniline and the reduced product cyclized with HCO₂H to give I (R = 3-pyridyl, Z1 = bond) (II; R3 = Br) which was arylated by 3-furylboronic acid to give II (R3 = 3-furyl). Data for biol. activity of I were given.
IT 13691-22-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of imidazopyridines as GABAA receptor ligands)
RN 13691-22-0 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 131 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
yl)phenyl]amino]pyrimidine (also prepd.) and Et 2-(2,6-dichlorophenyl)-2-oxoacetate, which showed IC₅₀ of >7.7 μM against PDGF-receptor tyrosine kinase assay. A method of treating cell proliferative disorders and pharmaceutical compns. were also claimed.
IT 330551-18-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of pteridinones for inhibiting kinase mediated cellular proliferative disorders)
RN 330551-18-3 CAPLUS
CN Carbamic acid, [1-(4-aminophenyl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5
THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 132 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

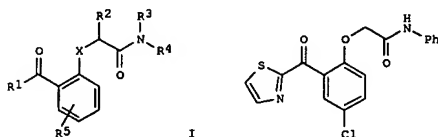


REFERENCE COUNT: 3
THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 133 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:185739 CAPLUS
DOCUMENT NUMBER: 134:237301
TITLE: Preparation of benzophenones and phenyl heteroaryl ketones as inhibitors of reverse transcriptase
INVENTOR(S): Andrews, Clarence Webster; Chan, Joseph Howling; Freeman, George Andrew; Romines, Karen Rene; Tidwell, Jeffrey H.
PATENT ASSIGNEE(S): Glaxo Group Limited, UK; Pianetti, Pascal Maurice Charles
SOURCE: PCT Int. Appl., 436 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017982	A1	20010315	WO 2000-EP8487	20000831
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2383782	AA	20010315	CA 2000-2383782	20000831
BR 2000013771	A	20020514	BR 2000-13771	20000831
EP 1208091	A1	20020529	EP 2000-967637	20000831
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
TR 200201187	T2	20020821	TR 2002-200201187	20000831
JP 2003510252	T2	20030318	JP 2001-521729	20000831
JP 3739704	B2	20060125		
NZ 517451	A	20040130	NZ 2000-517451	20000831
AU 770302	B2	20040219	AU 2000-77743	20000831
ZA 2002001664	A	20030527	ZA 2002-1664	20020227
NO 200201042	A	20020430	NO 2002-1042	20020301
PRIORITY APPLN. INFO.:			GB 1999-20872	A 19990904
			WO 2000-EP8487	W 20000831

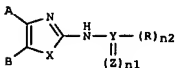
OTHER SOURCE(S): MARPAT 134:237301
GI



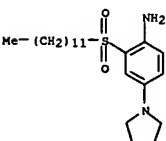
L13 ANSWER 134 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:176724 CAPLUS
DOCUMENT NUMBER: 134:214971
TITLE: Thermal recording material containing diazonium salt and coupler
INVENTOR(S): Yamada, Hisao; Ikeda, Takami
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.
CODEN: JKKXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001063218	A2	20010313	JP 1999-236993	19990824
PRIORITY APPLN. INFO.:			JP 1999-236993	19990824

OTHER SOURCE(S): MARPAT 134:214971
GI

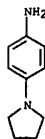


AB The material comprises a support having thereon a thermal recording layer containing a diazonium salt and Z1 coupler I (A = aromatic heterocyclic ring; B = a group released when coupled with a diazonium salt; X = S, O, NR1; R1 = H, alkyl, aryl; Y = C, S, P; Z = O, S; R = alkyl, aryl, heterocycle, alkoxy, aryloxy, amino; n1 = 1, upon Y = C or P; n1 = 1 or 2, upon Y = S; n2 = 1, upon Y = C or S; n2 = 1 or 2, upon Y = P) color-developed when reacted with the diazonium salt by heat. It forms magenta dye with improved hue, showing improved light stability.
IT 219648-47-2P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of diazonium compound)
RN 219648-47-2 CAPLUS
CN Benzenamine, 2-(dodecylsulfonyl)-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 133 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

AB The title compds. [I; X = C, O, N; R1 = alkyl, cycloalkyl, (un)substituted aryl, etc.; R2 = H, halo, alkyl; R3, R4 = H, OH, (un)substituted heterocyclyl, etc.; R5 = H, halo, alkyl, etc.], useful in the treatment of HIV infections, were prepared E.g., a 4-step synthesis of the ketone II which showed IC50 of between 101 nM and 1,000 nM against HIV-1 in MT4 cell assay, was described.
IT 2632-65-7, 4-(Pyrrolidino)aniline
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzophenones and Ph heteroaryl ketones as inhibitors of reverse transcriptase)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



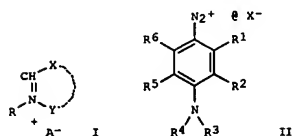
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 134 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L13 ANSWER 135 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:157523 CAPLUS
DOCUMENT NUMBER: 134:214970
TITLE: Thermal recording material containing diazo compound and coupler
INVENTOR(S): Yanagihara, Naoto; Ikeda, Takami
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
CODEN: JKKOAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001058468	A2	20010306	JP 1999-235866	19990823
PRIORITY APPLN. INFO.:			JP 1999-235866	19990823

OTHER SOURCE(S): MARPAT 134:214970
GI



AB The material comprises a thermal recording layer containing a quaternary salt heterocyclic coupler I [X, Y = C, N, O, P, S; X and Y bond through a linkage which may be substituted; R = (substituted) alkyl, aryl, aralkyl; A- = anion] and a diazo compound II (R1 = alkylsulfenyl, arylsulfenyl, alkylsulfinyl, arylsulfinyl, alkylsulfonyl, arylsulfonyl, sulfamoyl, alkoxy carbonyl, carbamoyl, CO2H, acyl, CN; R3, R4 = H, alkyl, aryl; R2, R5, R6 = H, alkyl, aryl, alkoxy, halo; X- = anion; R3 and R4, R2 and R3, or R4 and R5 may form a ring). It shows improved image storage stability and fixability.

IT 219648-47-2P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of diazonium compound)

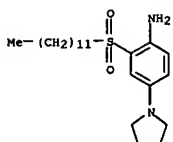
RN 219648-47-2 CAPLUS
CN Benzenamine, 2-(dodecylsulfonyl)-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 136 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:101141 CAPLUS
DOCUMENT NUMBER: 134:163051
TITLE: Preparation of anilinoquinoline derivatives as inhibitors
INVENTOR(S): of tyrosine protein kinase syk
Collingwood, Stephen Paul; Hayler, Judy; Le Grand, Darren Mark; Mattes, Henri; Meneer, Keith Allan; Walker, Clive Victor; Cockcroft, Xiao-ling
PATENT ASSIGNEE(S): Novartis Ag, Switz.; Novartis-Erfindungen
Verwaltungsgesellschaft M.B.H.
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

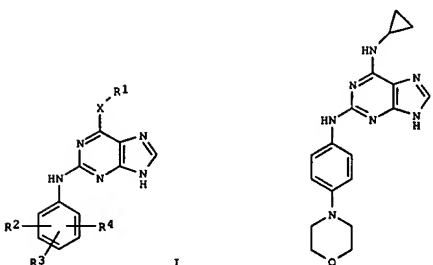
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001009134	A1	20010208	WO 2000-EP7311	20000728
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DO, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, NG, SN, TD, TG				
CA 2379560	AA	20010208	CA 2000-2379560	20000728
BR 2000012888	A	20020409	BR 2000-12888	20000728
EP 1200435	A1	20020502	EP 2000-953112	20000728
EP 1200435	B1	20031001		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
TR 200200234	T2	20020621	TR 2002-200200234	20000728
JP 2003056375	T2	20030218	JP 2001-514337	20000728
AT 251160	F	20031015	AT 2000-953112	20000728
AU 767349	B2	20031106	AU 2000-65677	20000728
PT 1200435	T	20040227	PT 2000-953112	20000728
NZ 516667	A	20040528	NZ 2000-516667	20000728
ES 2208395	T3	20040616	ES 2000-953112	20000728
RU 2248977	C2	20050327	RU 2002-103305	20000728
NO 2002000467	A	20020320	NO 2002-467	20020129
ZA 2002000783	A	20030212	ZA 2002-783	20020129
US 6589950	B1	20030708	US 2002-48577	20020319
PRIORITY APPLN. INFO.:			GB 1999-18035	A 19990730
			WO 2000-EP7311	W 20000728

OTHER SOURCE(S): MARPAT 134:163051
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L13 ANSWER 135 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



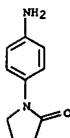
L13 ANSWER 136 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB The title compds. (I) [wherein X = O, S, or NR5; R1 = (un)substituted (cyclo)alkyl, alkenyl, benzocycloalkyl, cycloalkylalkyl, or aralkyl; R2, R3, and R4 = independently H, halo, (halo)alkyl, alkoxy, carboxy, alkoxy carbonyl(alkyl), carboxyalkyl, or (un)substituted amino, sulfamoyl(alkyl), or carbamoyl; or two of R2, R3, and R4 form a carbocyclic or heterocyclic ring together with the C atoms to which they are attached; R5 = H or alkyl] in free or salt form were prepared for use as pharmaceuticals, particularly for the treatment of inflammatory or obstructive airways disease. For example, cyclopropylamine and N,N-diisopropylethylamine were added to 2,6-dichloropurine in n-BuOH to give 6-cyclopropylamino-2-chloropurine. The chloropurine was stirred with 4-morpholinoaniline in the presence of N,N-diisopropylethylamine in NMP at 130°C for 48 h to give II, which inhibited phosphorylation by syk kinase with an IC50 of 9 nM.

IT 13691-22-OP
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of anilinoquinoline tyrosine protein kinase inhibitors by addition of anilines and amines, alcs., or thiols to dichloropurines)

RN 13691-22-0 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 137 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2000:842122 CAPLUS
DOCUMENT NUMBER: 134:17318
TITLE: Preparation of substituted 2-phenylamino-N-phenylacetamides with immunosuppressing activity
INVENTOR(S): Furber, Mark; Luker, Timothy Jon; Mortimore, Michael Paul; Thorne, Philip; Meghani, Premji
PATENT ASSIGNEE(S): AstraZeneca AB, Swed.
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

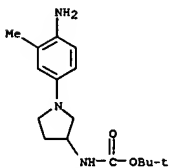
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000071529	A1	20001130	WO 2000-GB1943	20000522
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LA, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2372580	AA	20001130	CA 2000-2372580	20000522
BR 2000010716	A	20020213	BR 2000-10716	20000522
EP 1185522	A1	20020313	EP 2000-931406	20000522
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003500399	T2	20030107	JP 2000-619786	20000522
NZ 515282	A	20040130	NZ 2000-515282	20000522
AU 778305	B2	20041125	AU 2000-49362	20000522
US 6555541	B1	20030429	US 2000-583000	20000710
ZA 2001009091	A	20030203	ZA 2001-9091	20011102
NO 2001005665	A	20020124	NO 2001-5665	20011120
PRIORITY APPLN. INFO.:			SE 1999-1875	A 19990525
			WO 2000-GB1943	W 20000522

OTHER SOURCE(S): MARPAT 134:17318
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

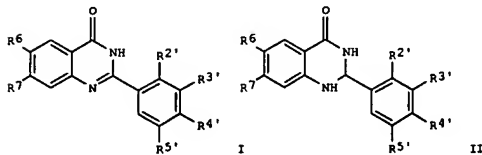
AB The title compds. [I; R1 = H, halo, CF3, etc.; T = O, NH; U = O, S, NH; Ar = II, III (wherein X = a bond, O, CO, etc.; one of R2 and R3 = halo, CN, NO2, etc., and the other of R2 and R3 = H, halo, Me; R4 = dialkylN(CH2)t (t = 0-2), imidazolyl, (un)substituted 3-9 membered saturated heterocyclic ring system containing 1-2 N atoms, etc.]] which showed antagonistic activity at the P2X7 receptor, were prepared E.g., a multi-step synthesis of IV.3HC1 which showed pIC50 of > 4.50 against P2X7 receptor binding, was given.

L13 ANSWER 137 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
IT 301672-86-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of substituted 2-phenylamino-N-phenylacetamides with immunosuppressing activity)
RN 301672-86-6 CAPLUS
CN Carbamic acid, [1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



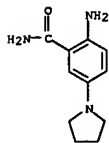
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 138 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2000:758790 CAPLUS
DOCUMENT NUMBER: 134:71554
TITLE: 6-Alkylamino- and 2,3-Dihydro-3'-methoxy-2-phenyl-4-quinazolinones and Related Compounds: Their Synthesis, Cytotoxicity, and Inhibition of Tubulin Polymerization
AUTHOR(S): Hour, Mann-Jen; Huang, Li-Jiau; Kuo, Sheng-Chu; Xia, Yi; Bastow, Kenneth; Nakanishi, Yuka; Hamel, Ernest; Lee, Kuo-Hsiung
CORPORATE SOURCE: Graduate Institute of Pharmaceutical Chemistry, China Medical College, Taichung, Taiwan
SOURCE: Journal of Medicinal Chemistry (2000), 43(23), 4479-4487
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:71554
GI



AB As part of the authors' continuing search for potential anticancer candidates among 2-phenyl-4-quinolones and 2-phenyl-4-quinazolinones, two series of 6,7,2',3',4',5'-substituted 2-phenyl-4-quinazolinones (shown as I) and 6,2',3',4',5'-substituted 2,3-dihydro-2-phenyl-4-quinazolinones (shown as II) were synthesized and evaluated for cytotoxicity and as inhibitors of tubulin polymerization. In general, a good correlation was found between the two activities. Five of the 6-substituted heterocyclic 2-phenyl-4-quinazolinones showed significant cytotoxicity against a panel of human tumor cell lines with EC50 values in the low micromolar to nanomolar concentration ranges. Compound 38 (I; R6 = pyrrolino; R7 = R2' = R4' = H; R3' = OMe) was the most potent of these compds., as well as the most potent inhibitor of tubulin polymerization in this series. The activity of 38 was in the same range as those of the antimitotic natural products, colchicine, podophyllotoxin, and combretastatin A-4. Substituted 2-phenyl-4-quinazolinones and 2,3-dihydro-2-phenyl-4-quinazolinones also displayed highly selective cytotoxicity against the ovarian cancer 1A9 and P-gp resistant KB-VIN cell lines.
IT 314768-96-2P, 2-Amino-5-pyrrolidinobenzamide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

L13 ANSWER 138 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 (prepn. and thermal cyclodehydration/dehydrogenation with
 benzaldehydes)
 RN 314768-96-2 CAPLUS
 CN Benzamide, 2-amino-3-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

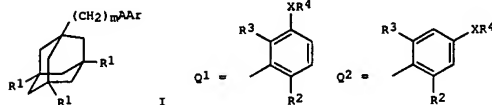


REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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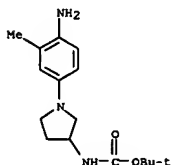
L13 ANSWER 139 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:742083 CAPLUS
 DOCUMENT NUMBER: 133:309908
 TITLE: Preparation of piperazinyladamantylmethylbenzamides
 and related compounds as P2X7 receptor antagonists.
 Alcaraz, Lillian; Furber, Mark; Mortimore, Michael
 AstraZeneca AB, Swed.
 PCT Int. Appl., 166 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000061569	A1	20001019	WO 2000-SE663	20000406
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LA, LS, LT, LU, LV, MA, MD, MG, MK, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
CA 2368829	AA	20001019	CA 2000-2368829	20000406
BR 2000009651	A	20001019	BR 2000-9651	20000406
EP 1171432	A1	20001019	EP 2000-919245	20000406
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200102911	T2	20001019	TR 2001-200102911	20000406
JP 2002541249	T2	20021203	JP 2000-610843	20000406
EE 200100525	A	20021216	EE 2001-525	20000406
EE 4565	B1	20051215		
NZ 514477	A	20030429	NZ 2000-514477	20000406
AU 774526	B2	20040701	AU 2000-39947	20000406
RU 2254333	C2	20050620	RU 2001-130140	20000406
US 6492355	B1	20021210	US 2000-555489	20000601
NO 2001004894	A	20011210	NO 2001-4894	20011008
ZA 2001008265	A	20030108	ZA 2001-8265	20011008
PRIORITY APPLN. INFO.:			SE 1999-1270	A 19990409
			GB 2000-2330	A 20000201
			WO 2000-SE663	W 20000406

OTHER SOURCE(S): MARPAT 133:309908
 GI



L13 ANSWER 139 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 AB Title compds. I [m = 1-3; R1 = H, halo; A = CONH; Ar = Q1, Q2; X = O, CO, (CH2)1-6, S, SO, SO2, etc.; 1 of R2, R3 = halo, cyano, NO2, amino, OH, (substituted) alkyl, cycloalkyl, alkoxy, etc., the other = H, halo; R4 = 3-5 membered (unsatd.) (substituted) heterocyclyl containing 1-2 N atoms, substituted 3-8 membered carbocyclyl], were prepared. Thus, 3-chloro-2-nitro-N-[tricyclo[3.3.1.1.3,7]dec-1-ylmethyl]benzamide (preparation given) and tert-Bu piperazine-1-carboxylate were heated at 120° in Me2SO for 24 h to give the coupling product, which was stirred with HCl in THF/dioxane to give 2-nitro-3-piperazin-1-yl-N-[tricyclo[3.3.1.1.3,7]dec-1-ylmethyl]benzamide. I antagonized P2X7 receptors with pIC50 >4.50.
 IT 301672-86-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of piperazinyladamantylmethylbenzamides and related compds. as P2X7 receptor antagonists)
 RN 301672-86-6 CAPLUS
 CN Carbanic acid, [1-[4-amino-3-methylphenyl]-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

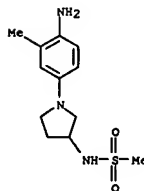


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 140 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:723402 CAPLUS
 DOCUMENT NUMBER: 133:315529
 TITLE: Silver halide color photographic material, method of forming image, and cellulose ester film for photographic film support
 Iwagaki, Masaru
 Konica Co., Japan
 Jpn. Kokai Tokkyo Koho, 70 pp.
 CODEN: JKXKAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000284430	A2	20001013	JP 1999-88576	19990330
PRIORITY APPLN. INFO.:			JP 1999-88576	19990330

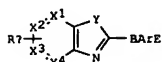
OTHER SOURCE(S): MARPAT 133:315529
 AB The Ag halide color photog. material contains ≥ 1 compound selected from $\text{RaOOC}(\text{CH}_2)_m\text{COORb}$, $\text{RcOOC}(\text{C}_n\text{H}_{2n-2})\text{COORd}$, $\text{ReCOO}(\text{CH}_2)_p\text{CORf}$, C(Rg)(Rh)(Ri)(OH) , $\text{X}((\text{CH}_2)_q\text{CO}(\text{CO})\text{Rj})_r$ (Ra-d = C4-10 alkyl, alkenyl; Re, f = C3-24 alkyl; Rg = alkyl, alkenyl; Rh, i = H, Rg; X = 5-7-membered saturated hydrocarbon; m, n = 2-10; q = 0-2; r = 1-3; Rj = C4-16 alkyl) in ≥ 1 photog. constituting layer and is developed by a solution containing a sp. aniline derivative
 IT 143525-64-8
 RL: TEM (Technical or engineered material use); USES (Uses) (silver halide color photog. material containing)
 RN 143525-64-8 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



L13 ANSWER 141 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:608744 CAPLUS
 DOCUMENT NUMBER: 133:207894
 TITLE: Preparation of benzimidazolyethylarylcaboxamidines and related compounds as thrombin inhibitors.
 INVENTOR(S): Haeuel, Norbert; Naer, Herbert; Frieppke, Henning; Ries, Uwe; Staessen, Jean Marie; Wienen, Wolfgang
 PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany
 SOURCE: PCT Int. Appl., 87 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050419	A1	20000831	WO 2000-EP1387	20000219
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OL, OM, OS, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19907813	A1	20000831	DE 1999-19907813	19990224
PRIORITY APPLN. INFO.:			DE 1999-19907813	A 19990224

OTHER SOURCE(S): MARPAT 133:207894
 GI



AB Title compds. [I; Ra = (benzocondensed) (substituted) 5-7 membered N-bound heterocyclyl; Y = O, S, imino; X1-X4 = CH, or 1-2 of X1-X4 = N, the rest =

CH; B = CH2CH2, OCH2, SCH2, SOCH2, COCH2, iminomethyl; E = cyano, RbNH(CNH), Rb = H, OH, i in vivo cleavable group], were prepared Thus, 4-cyanophenoxyacetic acid was refluxed 30 min. with DCC in EtOH; 3-amino-4-methylaminonitrobenzene was added followed by 4 h reflux to give

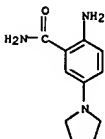
64% 4-methylamino-3-(4-cyanophenoxyacetylaminonitro)benzene. The latter was refluxed 45 min. in HOAc to give 96% 1-methyl-2-(4-cyanophenoxy)-5-nitrobenzimidazole, which was hydrogenated in DMF over Pd/C to give 86% 1-methyl-2-(4-cyanophenoxyethyl)-5-aminobenzimidazole. The latter was stirred with 2-fluoronitrobenzene and EtN(CHMe2)2 at 150° to give 86% 1-methyl-2-(4-cyanophenoxyethyl)-5-(2-nitrophenylamino)benzimidazole, which was hydrogenated over Pd/C to give 86% 1-methyl-2-(4-cyanophenoxyethyl)-5-(2-aminophenylamino)benzimidazole. This was stirred

L13 ANSWER 142 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:586051 CAPLUS
 DOCUMENT NUMBER: 133:281752
 TITLE: The synthesis of substituted 2-aryl-4(3H)-quinazolinones using NaHSO3/DMA. Steric effect upon the cyclization-dehydrogenation step
 Lope, Simon E.; Rosales, Monica E.; Urdaneta, Neudo; Godoy, M. Valentina; Charris, Jaime E.
 CORPORATE SOURCE: Departamento de Quimica, Universidad Simon Bolivar
 SOURCE: Valle de Sartenejas, Apartado, Venez. Journal of Chemical Research, Synopses (2000), (6), 258-259, M 0716-0726
 CODEN: JRPSPC; ISSN: 0308-2342
 PUBLISHER: Science Reviews Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 133:281752

AB The number of 2-aryl substituted 6-pyrrolidino-4(3H)-quinazolinones are reported. They were synthesized in four steps starting from com. available 5-chloro-2-nitrobenzoic acid. The key cyclization-dehydrogenation step between 2-aminopyrrolidinobenzamide and different benzaldehydes employs NaHSO3 as the dehydrogenating agent in hot DMA. This last reaction shows a strong dependence on the position of the substituent at the aromatic ring of the benzaldehyde used. Thus, the 2-substituted benzaldehydes, in contrast to 3- and 4-substituted compds. give a poor yield of desired products or a mixture

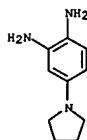
IT 314768-96-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyrrolidinoquinazolinones)

RN 314768-96-2 CAPLUS
 CN Benzamide, 2-amino-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 141 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 with ClCOCO2Et and pyridine in THF to give 2% 1-methyl-2-(4-cyanophenoxyethyl)-5-(2,3-dioxo-3,4-dihydro-2H-quinoxalin-1-yl)benzimidazole. Stirring of the latter with HCl in EtOH for 6 h followed by treatment of the residue with (NH4)2CO3 in EtOH for 48 h gave 71.5% 1-methyl-2-(4-amidinophenoxyethyl)-5-(2,3-dioxo-3,4-dihydro-2H-quinoxalin-1-yl)benzimidazole. Tested I showed thrombin times ED200 = 0.033-0.510.
 IT 289913-84-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of benzimidazolyethylarylcaboxamidines and related compds. as thrombin inhibitors)
 RN 289913-84-4 CAPLUS
 CN 1,2-Benzenediamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

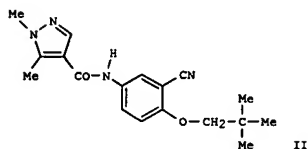
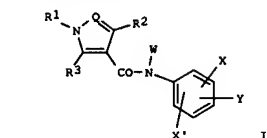


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 143 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:573775 CAPLUS
 DOCUMENT NUMBER: 133:177164
 TITLE: Preparation of pyrazolecarboxamides and pyrrolecarboxamides as inhibitors of the proliferation of activated lymphocytes and as remedies for autoimmune disease.
 INVENTOR(S): Ushio, Hiroyuki; Ishibuchi, Seigo; Naito, Youichiro; Sugiyama, Naoki; Kawaguchi, Takafumi; Chiba, Kenji; Ohtsuki, Makio; Naka, Yoichi
 PATENT ASSIGNEE(S): Yoshitomi Pharmaceutical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 315 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047558	A1	20000817	WO 2000-JP767	20000210
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2362381	AA	20000817	CA 2000-2362381	20000210
NZ 514095	A	20010928	NZ 2000-514095	20000210
EP 1176140	A1	20020130	EP 2000-902925	20000210
EP 1176140	B1	20041229		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000008173	A	20021022	BR 2000-8173	20000210
JP 3419395	B2	20030623	JP 2000-598479	20000210
JP 2003176273	A2	20030624	JP 2002-375683	20000210
AT 286026	E	20050115	AT 2000-902925	20000210
ES 2234564	T3	20050701	ES 2000-902925	20000210
PRIORITY APPLN. INFO.:			JP 1999-33367	A 19990210
			JP 1999-198473	A 19990713
			JP 2000-598479	A3 20000210
			WO 2000-JP767	W 20000210

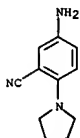
OTHER SOURCE(S): MARPAT 133:177164
 GI



AB The title compds. I [R1 represents substituted aryl, heteroaryl, etc.; R2 and R3 represent each hydrogen, alkyl, halogeno, hydroxy, etc.; Q represents N, CH, etc.; W represents hydrogen, alkyl, hydroxycarbonylalkyl, etc.; X represents halogeno, cyano, nitro, amino, etc.; X' represents hydrogen, halogeno, cyano or nitro; and Y represents alkyl, hydroxy, alkoxy, etc.] are prepared. For example, pyrazolecarboxamide derivative II was prepared. The title compds. are said to show significant inhibiting activity against the proliferation of activated lymphocytes in vitro tests. A formulation is given.

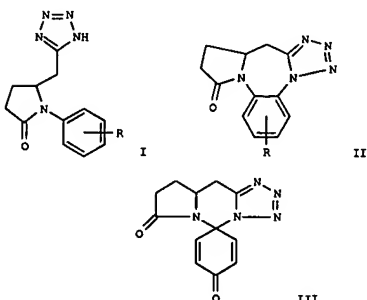
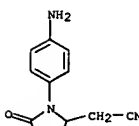
IT 219921-68-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyrazolecarboxamides and pyrrolecarboxamides as inhibitors of the proliferation of activated lymphocytes and as remedies for autoimmune disease.)

RN 219921-68-3 CAPLUS
 CN Benzonitrile, 5-amino-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS

L13 ANSWER 144 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:523346 CAPLUS
 DOCUMENT NUMBER: 133:266796
 TITLE: Oxidative cyclization of some 1-Aryl-5-(tetrazol-5-ylmethyl)pyrrolidin-2-ones and of a related piperidin-2-one. Preparation of fused tetracyclic tetrazolobenzodiazepinone derivatives
 AUTHOR(S): Giang, Le Thanh; Fetter, Jozsef; Kajtar-Peredy, Lempert, Karoly; Bertha, Ferenc; Keseru, Gyorgy M.; Czira, Gabor
 CORPORATE SOURCE: Department of Organic Chemistry, Technical Univ. Budapest, Budapest, H-1521, Hung.
 SOURCE: Journal of Chemical Research, Synopses (2000), (5), 204-205, 0601-0621
 CODEN: JRPSCD; ISSN: 0308-2342
 PUBLISHER: Science Reviews Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 133:266796
 GI

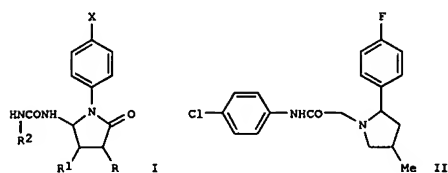


AB Oxidative cyclization of the phenyl(tetrazolylmethyl)pyrrolidinones I (R = H, 4-Me, 3-MeO, 4-F, 4-Cl, 3-F3C) by treatment with lead(IV) acetate or cerium(IV) ammonium nitrate gave the tetrazolobenzodiazepinones II with both oxidants, while oxidation of I (R = 4-F3CCONH) gave the spiro[cyclohexadiene-pyrrolotetrazolopyrimidine]dione III.

IT 297183-58-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyrrolotetrazolobenzodiazepinones via oxidative cyclization of phenyl(tetrazolylmethyl)pyrrolidinones)

RN 297183-58-5 CAPLUS
 CN 2-Pyrrolidineacetonitrile, 1-(4-aminophenyl)-5-oxo- (9CI) (CA INDEX NAME)

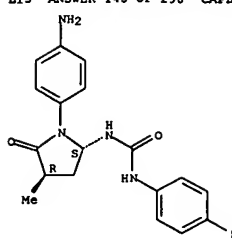
L13 ANSWER 145 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:484049 CAPLUS
 DOCUMENT NUMBER: 133:104962
 TITLE: Preparation of phenylpyrrolidineones as mental retardation preventive agents in treatment of mental disorders
 INVENTOR(S): Sasaki, Atsushi; Furuya, Yoshiaki; Kagatani, Takaki
 PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 JP 2000198771 A2 20000718 JP 1999-307792 19991028
 PRIORITY APPLN. INFO.: JP 1998-306576 A 19981028
 OTHER SOURCE(S): MARPAT 133:104962
 GI



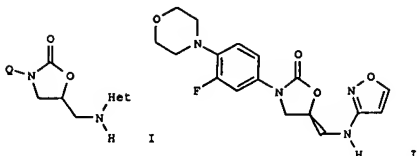
AB Title compds. [I: X = F, Cl, NO2, H; R = CH3, HOCH2CH2, H; R1 = H, CH3; R2 = 4-ClC6H4, C6H5, CH(CH3)2, 3-ClC6H4, 2-ClC6H4, 4-Me2NC6H4, 3-Me2NC6H4, 4-pyridyl, 3-pyridyl, 3-chloropyridyl, 4-FC6H4; II], stereoisomers, and pharmaceutical acceptable salts are prepared and are effective in mental retardation preventive remedy improvement agents in treatment of schizophrenia, depression, dementia, Anxiety, cerebrovascular dementia, senile dementia, unconsciousness during chronic cerebral apoplexy, glutamic acid intake inhibition disease. Thus, the title compound I (X = F; R = (CH2)2OH; R1 = H; R2 = 4-FC6H4) was prepared and tested.
 IT 284038-85-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of phenylpyrrolidineones as mental retardation preventive agents in treatment of mental disorders)
 RN 284038-85-3 CAPLUS
 CN Urea, N-[(2R,4S)-1-(4-aminophenyl)-4-methyl-5-oxo-2-pyrrolidinyl]-N'-(4-fluorophenyl)-, rel- (9CI) (CA INDEX NAME)
 Relative stereochemistry.

L13 ANSWER 146 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:260285 CAPLUS
 DOCUMENT NUMBER: 132:293758
 TITLE: Preparation of new [(heterocyclylamino)methyl]oxazolidinones as antibacterials
 INVENTOR(S): Gravestock, Michael Barry
 PATENT ASSIGNEE(S): Zeneca Limited, UK
 SOURCE: PCT Int. Appl., 148 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE
 WO 2000021960 A1 20000420 WO 1999-GB3299 19991005
 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2342623 AA 20000420 CA 1999-2342623 19991005
 AU 9961131 A1 20000501 AU 1999-61131 19991005
 AU 754123 B2 20021107
 BR 9914379 A 20010807 BR 1999-14379 19991005
 EP 1121358 A1 20010808 EP 1999-947761 19991005
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI
 JP 2002527439 T2 20020827 JP 2000-575866 19991005
 NZ 510211 A 20030530 NZ 1999-510211 19991005
 ZA 2001002659 A 20020701 ZA 2001-2659 20010330
 US 6734200 B1 20040511 US 2001-807113 20010405
 NO 2001001738 A 20010607 NO 2001-1738 20010406
 US 2003207899 A1 20031106 US 2003-382396 20030306
 PRIORITY APPLN. INFO.: GB 1998-21938 A 19981009
 WO 1999-GB3299 W 19991005
 US 2001-807113 A1 20010405
 OTHER SOURCE(S): MARPAT 132:293758
 GI

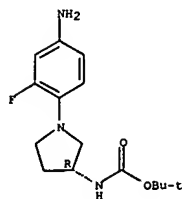
L13 ANSWER 145 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 146 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

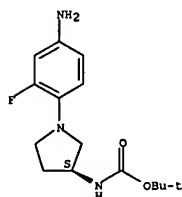


AB Title compds. I and their pharmaceutically acceptable salts and/or in-vivo-hydrolyzable esters are disclosed [wherein Het = (un)substituted, C-linked, 5-membered heteroaryl ring containing 2-4 N/O/S atoms, or (un)substituted, C-linked, 6-membered heteroaryl ring containing 2-3 N atoms; Q = certain (un)substituted Ph, pyridinyl, azolyl, benzazolyl, and related rings]. The compds. are useful as antibacterial agents, with a good spectrum of activity against standard Gram-pos. organisms, notably enterococci, pneumococci, and methicillin-resistant strains of S. aureus and coagulase-neg. staphylococci. Also disclosed are processes for their manufacture, and pharmaceutical compns. containing them. Approx. sixty synthetic examples are given. For instance, (R)-5-(hydroxymethyl)-3-(3-fluoro-4-morpholinophenyl)oxazolidin-2-one underwent Mitsunobu-type coupling with 3-[[[(2,2,2-trichloroethoxy)carbonyl]amino]isoxazole (55%), followed by deprotection with Zn in AcOH (25%), to give title compound II. The latter had an MIC of 1 µg/mL against methicillin-resistant coagulase-neg. staphylococci, and 0.5 µg/mL against a methicillin-sensitive strain.
 IT 252336-77-9P 252337-21-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate preparation of [(heterocyclylamino)methyl]oxazolidinones as antibacterials)
 RN 252336-77-9 CAPLUS
 CN Carbamic acid, [(3R)-1-(4-amino-2-fluorophenyl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 Absolute stereochemistry.



RN 252337-21-6 CAPLUS
 CN Carbamic acid, [(3S)-1-(4-amino-2-fluorophenyl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

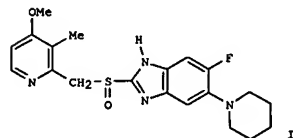
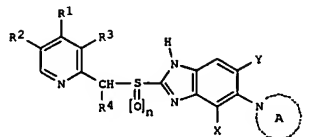
Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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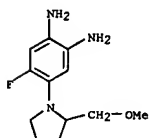
L13 ANSWER 147 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2000:253015 CAPLUS
 DOCUMENT NUMBER: 132:265196
 TITLE: Preparation of pyridylmethylsulfinyl benzimidazoles as
 antiulcer agents
 INVENTOR(S): Lohray, Braj Bhushan; Lohray, Vidya Bhushan; Guntupalli, Prasuna; Kommireddi, Narayan Reddy; Mamnoon, Prem Kumar; Ramanujam, Rajagopalan
 PATENT ASSIGNEE(S): Reddy's Research Foundation, India; Reddy-Chemisor, Inc.
 SOURCE: U.S., 47 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6051570	A	20000418	US 1998-41191	19980310
PRIORITY APPLN. INFO.: US 1998-41191 19980310				
OTHER SOURCE(S): MARPAT 132:265196				
GI				

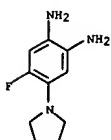


AB The title compds. [I; X, Y = H, halo, optionally halogenated alkoxy, etc.;
 A = (un)substituted 3-7 membered N containing heterocycle, 5-7 membered N containing heterocycle containing 1-2 addnl. heteroatoms selected from N, O, S or NR5 (wherein R5 = H, alkyl, aralkyl, etc.); R4 = H, halo, alkyl; R2, R3 =

L13 ANSWER 147 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 H, halo, NO2, etc.; R1 = H, halo, alkyl, etc.; n = 0-2; with the proviso that when R1 = alkoxy, and n = 1, R3 does not represent H and A does not represent unsubstituted piperidinyl or pyrrolidinyl group], useful as antiulcer agents, were prepd. E.g., synthesis of benzimidazole II which showed 100% H+/K+-ATPase inhibition at 10 mg/kg, was given.
 IT 216883-39-5P 216883-42-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyridylmethylsulfinyl benzimidazoles as antiulcer agents)
 RN 216883-39-5 CAPLUS
 CN 1,2-Benzenediamine, 4-fluoro-5-[2-(methoxymethyl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



RN 216883-42-0 CAPLUS
 CN 1,2-Benzenediamine, 4-fluoro-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

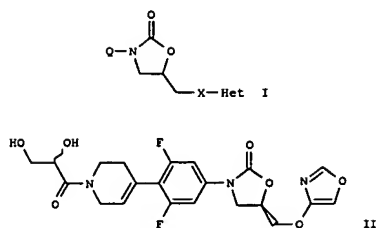


REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 148 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1999:795810 CAPLUS
 DOCUMENT NUMBER: 132:35694
 TITLE: Oxazolidinone derivatives, process for their preparation and pharmaceutical compositions
 containing them as antibiotics
 INVENTOR(S): Gravestock, Michael Barry
 PATENT ASSIGNEE(S): Zeneca Limited, UK
 SOURCE: PCT Int. Appl., 188 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964417	A2	19991216	WO 1999-GB1753	19990603
WO 9964417	A3	20000203		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2333332	AA	19991216	CA 1999-2333332	19990603
AU 9941571	A1	19991230	AU 1999-41571	19990603
AU 753988	B2	20021031		
BR 9910971	A	20010213	BR 1999-10971	19990603
EP 1082323	A2	20010314	EP 1999-925188	19990603
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200003595	T2	20010723	TR 2000-200003595	19990603
EE 200000707	A	20020415	EE 2000-707	19990603
JP 2002517498	T2	20020618	JP 2000-553426	19990603
NZ 508174	A	20031031	NZ 1999-508174	19990603
ZA 200006694	A	200010218	ZA 2000-6694	20001118
BG 105001	A	20010928	BG 2000-105001	20001129
NO 2000006152	A	20010202	NO 2000-6152	20001204
US 6617339	B1	20030909	US 2000-719012	20001205
US 2003144263	A1	20030731	US 2003-340526	20030109
PRIORITY APPLN. INFO.: GB 1998-12021 A 19980605				
GB 1998-20164 A 19980917				
GB 1998-26066 A 19981128				
WO 1999-GB1753 W 19990603				
US 2000-719012 B1 20001205				

OTHER SOURCE(S): CASREACT 132:35694; MARPAT 132:35694
 GI

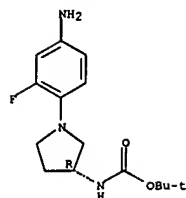


AB Title compds. I and their pharmaceutically-acceptable salts and in-vivo-hydrolyzable esters are described [wherein, for example: X = O or S; Het = (un)substituted C-linked 5-membered heteroaryl ring containing 2 to 4 heteroatoms independently selected from N, O, and S; Q = (for example) certain substituted phenyls, 2-pyridyls, or 1,2,5,6-tetrahydropyrid-4-yls]. The compds. are useful as antibacterial agents, and have good activity against a broad range of Gram-pos. pathogens, including organisms known to be resistant to most commonly known antibiotics. For instance, 5(R)-[(isoxazol-3-yl)oxy]methyl-3-[(4-{1,2,5,6-tetrahydropyrid-4-yl}-3,5-difluorophenyl)oxazolidin-2-one (preparation given) underwent N-acylation by (R,S)-2,3-O-isopropylideneglyceric acid using EDC and Et3N in CH2Cl2 (39%), followed by deprotection with HCl in aqueous THF (80%), to give title compound II. Against coagulase-neg. staphylococci, II had an MIC (µg/ml) of 0.13 for methicillin-sensitive strains, and 0.50 for methicillin-resistant strains.

IT 252336-77-9P 252337-16-9P 252337-21-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent).
 (preparation of antibiotic oxazolidinone derivs.)

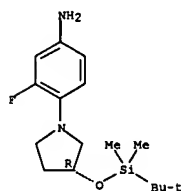
RN 252336-77-9 CAPLUS
 CN Carbamic acid, [(3R)-1-(4-amino-2-fluorophenyl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



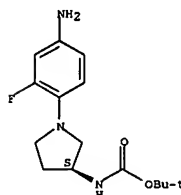
RN 252337-16-9 CAPLUS
 CN Benzenamine, 4-[(3R)-3-[[[(1,1-dimethylethyl)dimethylsilyl]oxy]-1-pyrrolidinyl]-3-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 252337-21-6 CAPLUS
 CN Carbamic acid, [(3S)-1-(4-amino-2-fluorophenyl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

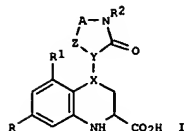
Absolute stereochemistry.



L13 ANSWER 149 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1999:795804 CAPLUS
 DOCUMENT NUMBER: 132:35720
 TITLE: Preparation of tetrahydroquinoline derivatives as glycine antagonists
 INVENTOR(S): Di Fabio, Romano
 PATENT ASSIGNEE(S): Glaxo Wellcome S.p.A., Italy
 SOURCE: PCT Int. Appl., 73 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964411	A1	19991216	WO 1999-EP3936	19990608
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2334727	AA	19991216	CA 1999-2334727	19990608
AU 9945092	A1	19991230	AU 1999-45092	19990608
AU 753867	B2	20021031		
BR 9911145	A	20010306	BR 1999-11145	19990608
EP 1086093	A1	20010328	EP 1999-927911	19990608
EP 1086093	B1	20050810		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200003652	T2	20010420	TR 2000-200003652	19990608
EE 200000733	A	20020617	EE 2000-733	19990608
JP 2002517492	T2	20020618	JP 2000-553420	19990608
NZ 508638	A	20030829	NZ 1999-508638	19990608
CZ 293605	B6	20040616	CZ 2000-4587	19990608
AT 301650	F	20050815	AT 1999-927911	19990608
ZA 2000007225	A	20020306	ZA 2000-7225	20001206
NO 2000006227	A	20010208	NO 2000-6227	20001207
HR 2000000845	A1	20011031	HR 2000-845	20001208
BG 105123	A	20011130	BG 2001-105123	20010108
US 6362199	B1	20020326	US 2001-719188	20010215
US 2002052391	A1	20020502	US 2001-990513	20011116
US 6413985	B2	20020702		
US 2002169186	A1	20021114	US 2002-145258	20020514
US 6495566	B2	20021217		
PRIORITY APPLN. INFO.:			GB 1998-12408	A 19980610
			GB 1998-12410	A 19980610
			WO 1999-EP3936	W 19990608
			US 2001-719188	A1 20010215
			US 2001-990513	A1 20011116

OTHER SOURCE(S): MARPAT 132:35720
 GI



AB The title compds. I [Y represents a carbon atom; Z is the group CH which is linked to the group Y via a double bond and X is CH or Z is methylene or NR11 and X is a carbon atom linked to the group Y via a double bond; A represents a Cl-2 alkylene chain and which chain may be substituted by

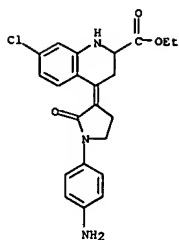
one or two groups selected from Cl-6alkyl optionally substituted by hydroxy, amino, Cl-4alkyl amino or Cl-4dialkyl amino or which chain may be substituted by the group O; R represents a halogen atom or Cl-4alkyl group; R1 represents a hydrogen, a halogen atom or Cl-4alkyl group; R2 represents optionally substituted Ph, a 5 membered heteroaryl group containing

1 to 3 heteroatoms selected from oxygen, sulfur and nitrogen or 6 membered heteroaryl group containing 1 to 3 nitrogen atoms, processes for their preparation]

were prep'd as glycine antagonists. E.g., Et 7-chloro-4-(2-oxo-1-(4-acetylamino)phenylpyrrolidin-3-ylidene)-1,2,3,4-tetrahydro-1-quinolinecarboxylate was prepared. The affinity of I for the strychnine insensitive glycine binding site was determined. The analgesic activity of I in mice was also determined.

IT 252349-01-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of tetrahydroquinoline derivs. as glycine antagonists)

RN 252349-01-2 CAPLUS
CN 2-Quinolinecarboxylic acid, 4-[1-(4-aminophenyl)-2-oxo-3-pyrrolidinylidene]-7-chloro-1,2,3,4-tetrahydro-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

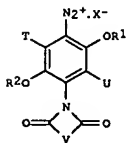
L13 ANSWER 150 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:774187 CAPLUS
DOCUMENT NUMBER: 132:17177
TITLE: Photodecomposable diazonium salt and thermal recording

INVENTOR(S): material containing the salt
Jinbo, Yoshihiro
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokyo Koho, 19 pp.
CODEN: JXXXXF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11335352	A2	19991207	JP 1998-139541	19980521
PRIORITY APPLN. INFO.:			JP 1998-139541	19980521

OTHER SOURCE(S): MARPAT 132:17177
GI

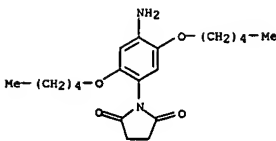


AB The thermal recording material comprises a support having thereon a heat-sensitive layer containing the diazonium salt I (R1, R2 = alkyl, aryl; T,

U = H, halogen, alkyl, aryl; V = atoms forming a 5- or 6-membered heterocyclic ring which may be substituted and condensed with the other ring; X- = anion) and a coupler. The material shows prolonged shelf life and is thermally developed and fixed under irradiation to provide images showing high color d. and improved light stability.

IT 251634-19-2
RL: RCT (Reactant); RACT (Reactant or reagent) (thermal printing material containing photodecomposable diazonium salt from)

RN 251634-19-2 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[4-amino-2,5-bis(pentyloxy)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L13 ANSWER 151 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1999:761015 CAPLUS
 DOCUMENT NUMBER: 132:6218
 TITLE: Oxidative hair dye compositions containing
 1-(4-aminophenyl)-2-pyrrolidinemethanols
 Lin, Mu-111; Popp, Margaret; Pan, Yuh-Guo
 INVENTOR(S): Bristol-Myers Squibb Company, USA
 PATENT ASSIGNEE(S): U.S., 11 pp.
 SOURCE: CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

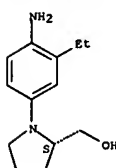
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5993491	A	19991130	US 1998-78264	19980513
JP 11349564	A2	19991221	JP 1999-128536	19990510
CA 2271510	AA	19991113	CA 1999-2271510	19990512
EP 962452	A1	19991208	EP 1999-201486	19990512
EP 962452	B1	20030917		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
MX 9904400	A	20000331	MX 1999-4400	19990512
PRIORITY APPLN. INFO.:			US 1998-78264	A 19980513

OTHER SOURCE(S): MARPAT 132:6218
 AB Comps. for the oxidative coloring of human hair contain as a novel primary dye intermediate a 1-(4-aminophenyl)-2-pyrrolidinemethanol, or a cosmetically acceptable salt. The comps. may also contain at least 1 other primary intermediate and conventional coupling compds., in addition to an oxidizing agent and other components typically used in oxidative hair dye preps. A preferred dye intermediate in the composition is (S)-1-(4-aminophenyl)-2-pyrrolidinemethanol (I) or cosmetically acceptable salts, which produce intense black colors when used in admixt. with a suitable coupling agents, such as 3-aminophenol, in conventional hair dye base formulations. Thus, 1-fluoro-4-nitrobenzene was treated with (S)-(+)-2-pyrrolidinemethanol and K2CO3 in DMF, and the resulting product was hydrogenated in the presence of 10% Pd on carbon in EtOH solution to give 1. Cocamidopropyl betaine 17, ethanolamine 2, oleic Acid 0.75, citric Acid 0.1, NH4OH 5.0, behentrimonium chloride 0.5, Na2SO3 0.1, EDTA 0.1, I 5 mmole, a coupler (e.g., 3-aminophenol) 5 mmole and water qs to 100%. The above composition was mixed with 100 g of 20 volume H2O2 and the mixture was applied to piedmont hair or gray hair and permitted to remain in contact with hair for 30 min. Thus dyed hair was then shampooed and rinsed with water and dried.

IT 251108-64-2
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (oxidative hair dye compns. containing (aminophenyl)pyrrolidinemethanols)
 RN 251108-64-2 CAPLUS
 CN 2-Pyrrolidinemethanol, 1-(4-amino-3-ethylphenyl)-, (2S)- (9CI) (CA INDEX NAME)

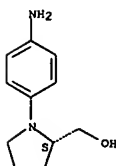
Absolute stereochemistry.

L13 ANSWER 151 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



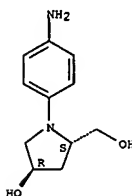
IT 132041-37-3P 251108-60-8P 251108-62-0P
 251108-70-0P
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (oxidative hair dye compns. containing (aminophenyl)pyrrolidinemethanols)
 RN 132041-37-3 CAPLUS
 CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 251108-60-8 CAPLUS
 CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)-4-hydroxy-, (2S,4R)- (9CI) (CA INDEX NAME)

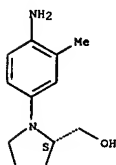
Absolute stereochemistry.



L13 ANSWER 151 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 251108-62-0 CAPLUS
 CN 2-Pyrrolidinemethanol, 1-(4-amino-3-methylphenyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

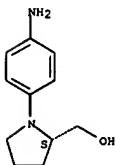


RN 251108-70-0 CAPLUS
 CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)-, (2S)-, sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 132041-37-3
 CMF C11 H16 N2 O

Absolute stereochemistry.



CM 2

CRN 7664-93-9
 CMF H2 O4 S

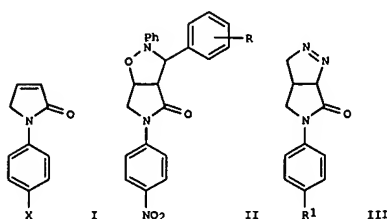


L13 ANSWER 151 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

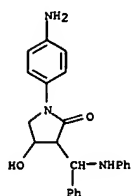
FORMAT

L13 ANSWER 152 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1999:757661 CAPLUS
 DOCUMENT NUMBER: 132:107907
 TITLE: Synthesis and reactivity of N-arylpyrrolin-2-ones
 AUTHOR(S): Mutyachenko, G. F.; Burlaka, S. D.; Kul'nevich, V. G.;
 Zavodnik, V. E.; Zharkikh, L. N.; Pushkareva, K. S.;
 Zimina, M. A.
 CORPORATE SOURCE: Kuban. Gos. Tekhnol. Univ., Russia
 SOURCE: Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i
 Khimicheskaya Tekhnologiya (1999), 42(4), 37-46
 PUBLISHER: CODEN: IVUKAR; ISSN: 0579-2991
 Ivanovskii Gosudarstvennyi Khimiko-Tekhnologicheskii
 Universitet
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI

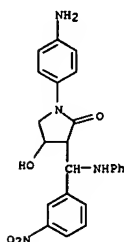


AB N-Arylpyrrolin-2-ones (I; X = NO₂, SO₂NH₂, COOH) were prepared by
 reaction of N-arylpyrrole-2-carboxaldehydes with H₂O₂-H₂SO₄. 1,3-Dipolar
 cycloaddn. of diarylnitrones and diazomethane to I gave
 oxadiazabicyclo[3.3.0]octenones (II; R = H, 3-NO₂, 4-Br, 4-Me, etc.) and
 triazabicyclo[3.3.0]octenones (III; R₁ = NO₂, SO₂NH₂). Reductive
 cleavage of the isoxazolidine ring in II by hydrazine hydrate in the presence of
 Raney nickel was described.
 IT 255730-08-6P 255730-09-7P 255730-10-0P
 255730-11-1P 255730-12-2P 255730-13-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 255730-08-6 CAPLUS
 CN 2-Pyrrolidinone,
 1-(4-aminophenyl)-4-hydroxy-3-[phenyl(phenylamino)methyl]-
 (9CI) (CA INDEX NAME)

L13 ANSWER 152 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

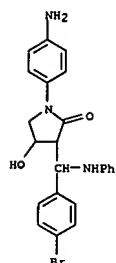


RN 255730-09-7 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)-4-hydroxy-3-[(3-
 nitrophenyl)(phenylamino)methyl]- (9CI) (CA INDEX NAME)

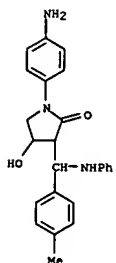


RN 255730-10-0 CAPLUS
 CN 2-Pyrrolidinone,
 1-(4-aminophenyl)-3-[(4-bromophenyl)(phenylamino)methyl]-
 4-hydroxy- (9CI) (CA INDEX NAME)

L13 ANSWER 152 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

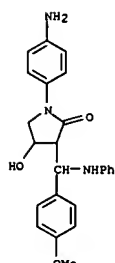


RN 255730-11-1 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)-4-hydroxy-3-[(4-
 methylphenyl)(phenylamino)methyl]- (9CI) (CA INDEX NAME)

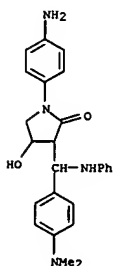


RN 255730-12-2 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)-4-hydroxy-3-[(4-
 methoxyphenyl)(phenylamino)methyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 152 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



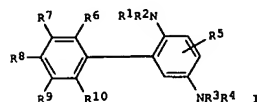
RN 255730-13-3 CAPLUS
 CN 2-Pyrrolidinone,
 1-(4-aminophenyl)-3-[(4-(dimethylamino)phenyl)(phenylamin
 o)methyl]-4-hydroxy- (9CI) (CA INDEX NAME)



L13 ANSWER 153 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:753020 CAPLUS
DOCUMENT NUMBER: 132:6216
TITLE: Oxidative hair coloring agents containing 2,5-diamino-1-phenylbenzene derivatives
INVENTOR(S): Braun, Hans-Juergen; Chassot, Laurent
PATENT ASSIGNEE(S): Wella A.-G., Germany
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9959527	A2	19991125	WO 1999-EP1084	19990219
WO 9959527	A3	20000120		
W: BR, JP, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19822041	A1	19991223	DE 1998-19822041	19980516
BR 9906440	A	20000711	BR 1999-6440	19990219
EP 1051143	A2	20001115	EP 1999-913174	19990219
EP 1051143	B1	20040721		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002511106	T2	20020409	JP 1999-557357	19990219
AT 271371	E	20040815	AT 1999-913174	19990219
ES 2224621	T3	20050301	ES 1999-913174	19990219
US 6500213	B1	20021231	US 2000-446726	20000314
PRIORITY APPLN. INFO.: DE 1998-19822041 A 19980516 WO 1999-EP1084 W 19990219				

OTHER SOURCE(S): MARPAT 132:6216
GI

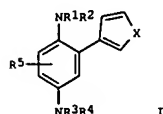


AB Oxidative dyes for keratin fibers based on a combination of developers and couplers, including ≥ 1 2,5-diamino-1-phenylbenzene derivative [I: R1-R4 = H, alkyl, (di)hydroxyalkyl, alkoxyalkyl; or R1NR2 and/or R3NR4 = 4-8-membered aliphatic ring; 22 of R1-R4 = H; R5 = H, OH, halo, (hydroxy)alkyl, alkoxy; R6-R10 = H, halo, CN, OH, alkyl, alkoxy, alkylthio, SH, NO2, (substituted) amino, CF3, CHO, etc.; or 2 neighboring groups of R6-R10 = OCH2O] or salt thereof as a developer, provide intense shades of color which are extremely fast to light, washing, and friction and are stable during storage. Thus, bromo-p-phenylenediamine-HCl was

L13 ANSWER 154 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:659619 CAPLUS
DOCUMENT NUMBER: 131:291037
TITLE: Diaminobenzene derivatives and oxidative hair dyes containing them
INVENTOR(S): Chassot, Laurent; Braun, Hans-Juergen
PATENT ASSIGNEE(S): Wella A.-G., Germany
SOURCE: Ger., 14 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19812058	C1	19991007	DE 1998-19812058	19980319
EP 963982	A2	19991215	EP 1999-101072	19990125
EP 963982	A3	20010321		
EP 963982	B1	20020313		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
ES 2172264	T3	20020916	ES 1999-101072	19990125
US 6132475	A	20001017	US 1999-250314	19990215
BR 9901020	A	20000509	BR 1999-1020	19990318
JP 11323165	A2	19991126	JP 1999-76869	19990319
PRIORITY APPLN. INFO.: DE 1998-19812058 A 19980319				

OTHER SOURCE(S): MARPAT 131:291037
GI

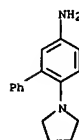


AB P-Diaminobenzene deriva. I [X = O, S, NH; R1-R4 = H, alkyl, (di)hydroxyalkyl, alkoxyalkyl; or R1NR2, R3NR4 = 4-8-membered ring; R5 = H, halo, alkyl, hydroxyalkyl, alkoxy] and their salts are developers for oxidative hair dyes which provide color nuances with high intensity and high light and washing fastness. Thus, bromo-p-phenylenediamine-HCl was condensed with di-tert-Bu dicarbonate to form 2,5-bis(tert-butyloxycarbonylamino)bromobenzene, which reacted with thiophene-3-boric acid in the presence of (PPh3)4Pd to form 2,5-diamino-1-(3-thienyl)benzene. A dye solution containing 2,5-diamino-1-(3-thienyl)benzene-2HCl 0.0125 mol, 2-amino-4-(2-hydroxyethyl)aminoanisole sulfate 0.0125 mol, 8% aqueous K Oleate 10.0, 22% aqueous NH3 10.0, iso-PROH 10.0, ascorbic acid 0.3, and H2O to 100.0 g was mixed 1:1 with 6% aqueous H2O2 and applied to bleached hair to produce a dark blue color.

IT 246244-44-0P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL

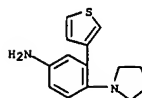
L13 ANSWER 153 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
converted with di-tert-Bu dicarbonate to 2,5-bis(tert-butyloxycarbonylamino)bromobenzene, and then with benzeneboric acid in the presence of tetrakis(triphenylphosphine)palladium to I-2HCl (R1-R10 = H) (II). A hair dye compn. contg. II 0.320, 5-amino-2-methylphenol 0.300, 4-amino-3-methylphenol 0.600, 4-aminophenol 0.600, α -naphthol 0.100, 2-chloro-6-(ethylamino)-4-nitrophenol 0.200, 8% aq. K oleate 10.000, 22% aq. NH3 10.000, iso-PROH 10.000, ascorbic acid 0.300, and H2O to 100.000 g, when mixed 1:1 with 6% H2O2 and applied to bleached hair, produced a red color.

IT 251115-09-0P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oxidative hair coloring agents containing diaminophenylbenzene derivs.)
RN 251115-09-0 CAPLUS
CN {1,1'-Biphenyl}-3-amine, 6-(1-pyrrolidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

L13 ANSWER 154 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(Biological study); PREP (Preparation); USES (Uses)
(diaminobenzene deriva. and oxidative hair dyes contg. them)
RN 246244-44-0 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)-3-(3-thienyl)-, dihydrochloride (9CI)
(CA INDEX NAME)



● 2 HCl

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 155 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1999:610638 CAPLUS
 DOCUMENT NUMBER: 131:250487
 TITLE: Manufacture of color filter by development using heterocyclic-based developer agent
 INVENTOR(S): Iwagaki, Masaru
 PATENT ASSIGNEE(S): Konica Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 38 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

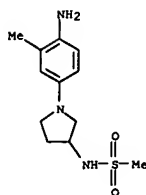
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11258753	A2	19990924	JP 1998-65640	19980316
PRIORITY APPLN. INFO.:			JP 1998-65640	19980316

OTHER SOURCE(S): MARPAT 131:250487
 GI

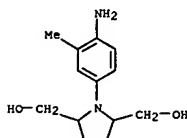
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The filter is manufactured by applying a Ag halide photog. material on a support, pattern-exposing in the presence of a color developer agent and a coupler, and developing to form a blue-, green-, and red-color pixel pattern. In the method, the agent comprises a condensed heterocyclic compound I, II, III, IV, V, VI, or VII (R1-6, 9-12, 14-21 = H, substituent; R7 = alkyl; R8, 13, 22 = substituent; R23 = C1-6 linear or branched alkyl, C2-6 main chain-containing C2-6 linear or branched hydroxyalkyl; R26, 30, 35 = C1-6 linear or branched alkyl; R24 = C2-6 main chain-containing C2-6 linear or branched alkylene, C2-6 main chain-containing C3-6 linear or branched hydroxyalkylene; R25, 29 = C1-4 linear, branched, or cyclic alkyl; R27 = C2-6 main chain-containing C2-6 linear or branched alkylene; R31, 36 = C2-6 main chain-containing C2-6 linear or branched alkylene; R28, 32, 33 = C1-4 linear or branched alkyl; R34 = C1-4 linear, branched, or cyclic alkyl, halogen, substituent bonding via N or O; R37 = H, alkyl, substituent; m, n = 0-3 integer; p, q, r = 0-4 integer; X = CONR39(R41), CO2R40, SO2NR39(R41); R39, 41 = H, alkyl, aryl; R40 = alkyl, aryl; if R24 = C2-3 (hydroxy)alkylene, then R23 = C2 (hydroxy)alkyl; R26 = Et; R27 = ethylene; R28 = Me; R29 = Me). The filter shows excellent heat resistance.
 IT 143525-64-8 209533-19-7
 RI: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)
 (manufacture of color filter by development using condensed heterocyclic developer agent)
 RN 143525-64-8 CAPLUS

L13 ANSWER 155 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)



RN 209533-19-7 CAPLUS
 CN 2,5-Pyrrolidinedimethanol, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



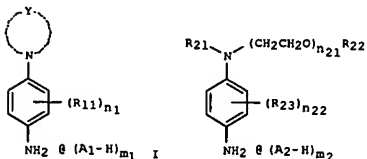
L13 ANSWER 156 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1999:380671 CAPLUS
 DOCUMENT NUMBER: 131:63210
 TITLE: Hair dyes containing dialkylaniline compounds
 INVENTOR(S): Kimura, Keizo
 PATENT ASSIGNEE(S): Fujii Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11158048	A2	19990615	JP 1997-329998	19971201
US 2002197223	A1	20021226	US 1998-200733	19981127
US 6613313	B2	20030902		

PRIORITY APPLN. INFO.:

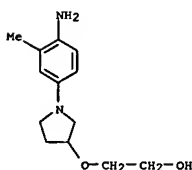
JP 1997-328129	A	19971128
JP 1997-328130	A <td>19971128</td>	19971128
JP 1997-329998	A <td>19971201</td>	19971201

OTHER SOURCE(S): MARPAT 131:63210
 GI



AB Hair dyes showing excellent applicability and washing-resistance contain dialkylaniline compds. I and II (R11 = alkyl or other substitution group, Y = alkyl or other group-substituted tetramethylene; n1 0-4; A1 = H or acid m1 = 0-2; R21 = Me or other alkyl; R22 = H, alkyl, etc.; R23 = alkyl, n21 = 2-8; n21 = 2-8; n22 = 0-4; A2 = H or acid). A hair dye contained a dialkylaniline compound 10, p-aminophenol 3, 5-amino-2-methylphenol 1.0, resorcinol 2.0, sodium percarbonate 40, ammonium monohydrogen phosphate 15, stearyltrimethylammonium chloride 2.0, di-Na EDTA 0.2, xanthan gum 6.5, sodium CM-cellulose 20, and perfumes 0.3 weight%.
 IT 228268-71-19 228268-73-3P 228268-75-5P
 RI: BUU (Biological use, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (hair dyes containing dialkylaniline compds.)
 RN 228268-71-1 CAPLUS
 CN Ethanol, 2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]-, sulfate (1:1) (salt) (9CI) (CA INDEX NAME)

L13 ANSWER 156 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CM 1
 CRN 143525-61-5
 CMF C13 H20 N2 O2

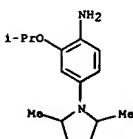


CM 2
 CRN 7664-93-9
 CMF H2 O4 S



RN 228268-73-3 CAPLUS
 CN Benzenamine, 4-(2,5-dimethyl-1-pyrrolidinyl)-2-(1-methylethoxy)-, sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1
 CRN 228268-72-2
 CMF C15 H24 N2 O



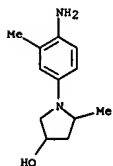
CM 2
 CRN 7664-93-9



RN 228268-75-5 CAPLUS
CN 1,5-Naphthalenedisulfonic acid, compd. with 1-(4-amino-3-methylphenyl)-5-methyl-3-pyrrolidinol (1:1) (9CI) (CA INDEX NAME)

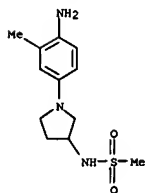
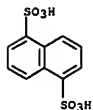
CM 1

CRN 228268-74-4
CMF C12 H18 N2 O



CM 2

CRN 81-04-9
CMF C10 H8 O6 S2



L13 ANSWER 157 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:231767 CAPLUS
DOCUMENT NUMBER: 130:318516
TITLE: Silver halide photographic material and image formation using same
INVENTOR(S): Miyazawa, Kazuhiro; Kokeguchi, Noriyuki; Suda, Yoshihiko
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 50 pp.
CODEN: JKOXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11095361	A2	19990409	JP 1997-250699	19970916
PRIORITY APPLN. INFO.:			JP 1997-250699	19970916

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

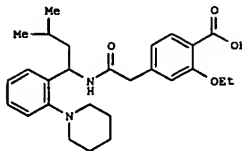
AB The title material, possessing ≥ 1 color image-forming layer containing Ag halide grains having a AgCl content of 280 mol% and a dye-donating substance on a support, contains ≥ 1 color developing agent selected from I - IX (R1-6, R9-12, R14-21 = H or substituent; R7 = alkyl; R8, R13, R22 = substituent; R23 = (hydroxy) alkyl; R24 = (hydroxy) alkylene; R25-26, R28-30, R32-33, R35 = alkyl; R27, R31, R36 = alkylene; R34 = alkyl, substituent bonding via halo, N or O; R37 = H, alkyl, substituent; X = CONR39R41, CO2R40, SO2NR39R41 (R39, R41 = H, alkyl, aryl; R40 = alkyl, aryl); Z = nonmetal atoms required to form a 5- or 6-membered heterocycle containing ≥ 1 of N, O, and S; Q1 = NR46R47 (R46, R47 = substituent), OH; R45 = H, halo, monovalent substituent; R51-55 = H, halo, monovalent substituent; M = H, alkali metal, alkali earth metal, ammonium, N-containing organic base; m, n, s = 0-3; p, q, r = 0-4; n1 = 1 or 2).

Imaging methods using the material are also claimed. The material provides high quality images with low Dmin and is independent of the variation in color development time in gradation reproducibility.

IT 143525-64-8
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(photog. film containing phenylene diamine derivative or heterocyclic compound as developer)

RN 143525-64-8 CAPLUS
CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

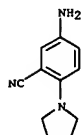
L13 ANSWER 158 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:163982 CAPLUS
Correction of: 1998:762251
DOCUMENT NUMBER: 130:162749
Correction of: 130:133641
TITLE: Repaglinide and Related Hypoglycemic Benzoic Acid Derivatives
AUTHOR(S): Grell, Wolfgang; Hurnaus, Rudolf; Griss, Gerhart; Sauter, Robert; Rupprecht, Eckhard; Mark, Michael; Luger, Peter; Nar, Herbert; Wittneben, Helmut; Mueller, Peter
CORPORATE SOURCE: Departments of Chemical and Biological Research, Boehringer Ingelheim Pharma KG, Biberach, D-88397, Germany
SOURCE: Journal of Medicinal Chemistry (1998), 41(26), 5219-5246
CODEN: JMCQAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The structure-activity relationships in two series of hypoglycemic benzoic acid deriva. were investigated. Some of the compds. resulted from meglitinide when the 2-methoxy was replaced by an alkyleneimino residue. Maximum activity was observed with the cis-3,5-dimethylpiperidino- and the octamethyleneimino- compds. Other compds. resulted from the meglitinide analogs bearing an inverse amido function when the 2-methoxy, the 5-fluoro, and the α -Me residue were replaced by a 2-piperidino, a 5-hydrogen, and a larger α -alkyl residue, resp. An alkoxy residue ortho to the carboxy group further increased activity and duration of action in the rat. The most active racemic compound, I turned out to be 12 times more active than the sulfonylurea (SU) glibenclamide. Activity was found to reside predominantly in the (S)-enantiomers. Repaglinide turned out to be a useful therapeutic for type 2 diabetic patients; approval was granted recently by the FDA and the EMEA. From investigations on the pharmacophoric groups, it was concluded that in addition to the two already known-the acidic group (COOH; SO2NH) and the amidic spacer (CONH; HCO)-the ortho residue R1 (alkyleneimino; alkoxy; oxo) must be regarded as a third one. A general pharmacophore model suitable for hypoglycemic benzoic acid deriva., SUs, and sulfonamides is proposed (Figure 6). Furthermore, from superpositions of low-energy conformations (LECs), it

L13 ANSWER 158 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
was concluded that a common binding conformation may exist and that
differences in binding to the SU receptor and in the mechanism of insulin
release between repaglinide and the two SUs may be due to specific
hydrophobic differences.
IT 219921-68-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and antidiabetic structure-activity relations of
repaglinide
and related benzoic acid derivs.)
RN 219921-68-3 CAPLUS
CN Benzonitrile, 5-amino-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



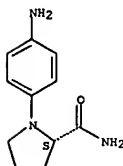
L13 ANSWER 159 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:147214 CAPLUS
DOCUMENT NUMBER: 130:213437
TITLE: Hair dyeing with N-(4-aminophenyl)prolineamide,
couplers, and oxidizing agents
INVENTOR(S): Lim, Mu-Il; Popp, Margaret A.; Pan, Yuh-Guo
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5876464	A	19990302	US 1998-24770	19980217
CA 2261484	AA	19990817	CA 1999-2261484	19990212
EP 937713	A1	19990825	EP 1999-200447	19990216
EP 937713	B1	20011017		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
JP 11269143 A2 19991005 JP 1999-38129 19990217
US 1998-24770 A 19980217

AB N-(4-Aminophenyl)prolineamide (I) and cosmetically acceptable salts
thereof are useful as primary intermediates in oxidative hair dyeing.
Compns. which contain a hair dye produced by oxidatively coupling I with
a coupler in the presence of an oxidizing agent are applied to the hair in
oxidative hair dyeing processes. A hair dye composition with a red shade
contained cocamidopropylbetaine 17, ethanolamine 2, oleic acid 0.75,
citric acid 0.1, NH4OH 5, behenrimonium chloride 0.5, sodium sulfite
0.1,
EDTA 0.1, erythorbic acid 0.4, I 1.03, 4-aminophenol 0.55,
5-amino-2-methylphenol 1.23, and water to 100 %.
IT 220898-56-6P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(as primary intermediate; hair dyeing with N-(4-
aminophenyl)prolineamide and couplers and oxidants)
RN 220898-56-6 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-, (2S)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



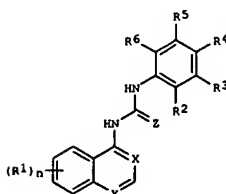
L13 ANSWER 159 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 160 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:139841 CAPLUS
DOCUMENT NUMBER: 130:196581
TITLE: Preparation of quinolinylureas and related compounds
as HFGAN72 antagonists.
Chan, George; Johns, Amanda; Jurewicz, Anthony;
Porter, Roderick Alan; Widdowson, Katherine
PATENT ASSIGNEE(S): Smithkline Beecham Plc, UK
SOURCE: PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9909024	A1	19990225	WO 1998-GB2437	19980813
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TH, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, BG, BR, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, CA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2300178	AA	19990225	CA 1998-2300178	19980813
AU 9887411	A1	19990308	AU 1998-87411	19980813
EP 1003737	A1	20000531	EP 1998-938812	19980813
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
JP 2001515075	T2	20010918	JP 2000-509705	19980813
US 6410529	B1	20020625	US 2000-485623	20000510

PRIORITY APPLN. INFO.:
GB 1997-17178 A 19970814
GB 1998-7756 A 19980408
WO 1998-GB2437 W 19980813

OTHER SOURCE(S): MARPAT 130:196581
GI

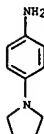


L13 ANSWER 160 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
AB Title compds. [I; X, Y = CH, N, provided that X and Y do not both = CH; Z = O, S; R1 = halo, R7CO, R8R9NCO, (substituted) alkyl, alkenyl, alkoxy; R2-R6 = H, halo, NO2, cyano, aryloxy, arylalkyloxy, arylalkyl, R7CO, R7SO2NH, R7CONR10, NR8R9, NR8R9CO, COR8, heterocyclyl, (substituted) alkyl, alkenyl, alkoxy, alkylthio, provided that Z1 of R2-R6 is other than H; an adjacent pair of R2-R6 = atoms to form a (substituted) carbocyclic or heterocyclic ring; R7 = alkyl, aryl; R8, R9 = H, alkyl, aryl, aralkyl; R10 = H, alkyl; n = 0-4], were prepared. Thus, quinoline-4-carbonyl azide (preparation given) was refluxed 1 h in PhMe; 5-amino-1-methylindole in CH2Cl2 was added and the mixture was stirred

16 h at room temperature to give
1-[1-methyl-1H-indol-5-yl]-3-quinolin-4-ylurea. The latter showed pK_D >7 in an assay of human HFGAN72 antagonist activity.

IT 2632-65-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of quinolinylureas and related compds. as HFGAN72 antagonists)

RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

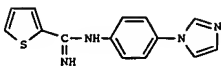
FORMAT

L13 ANSWER 161 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:27832 CAPLUS
DOCUMENT NUMBER: 130:81398
TITLE: Novel 2-(iminomethyl)aminophenyl derivatives as NO synthase inhibitors and traps for radical oxygen species
INVENTOR(S): Auvin, Serge; Harnett, Jeremiah; Bigg, Dennis; Chabrier De Lassaulniere, Pierre-Etienne
PATENT ASSIGNEE(S): Societe De Conseils de Recherches et D'Applications Scientifiques (S.C.R.A.S., Fr.
SOURCE: PCT Int. Appl., 134 pp.
CODEN: PIXXD2
Patent
DOCUMENT TYPE: French
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9858934	A1	19981230	WO 1998-FR1250	19980615
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
FR 2764889	A1	19981224	FR 1997-7701	19970620
FR 2764889	B1	20000901		
TW 422842	B	20010221	TW 1998-87109245	19980610
CA 2294809	AA	19981230	CA 1998-2294809	19980615
AU 9882189	A1	19990104	AU 1998-82189	19980615
AU 737964	B2	20010906		
EP 991654	A1	20000412	EP 1998-932205	19980615
EP 991654	B1	20050615		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI, RO			
BR 9903175	T2	20000421	TR 1999-9903175	19980615
BR 9810197	A	20000808	BR 1998-10197	19980615
NZ 501656	A	20011221	NZ 1998-501656	19980615
JP 2002507965	T2	20020312	JP 1999-503871	19980615
RU 2202543	C2	20030420	RU 2000-101328	19980615
AT 297935	E	20050715	AT 1998-932205	19980615
PT 991654	T	20051031	PT 1998-932205	19980615
ES 2244068	T3	20051201	ES 1998-932205	19980615
ZA 9805392	A	19990120	ZA 1998-5392	19980619
NO 9906208	A	20000215	NO 1999-6208	19991215
NO 315321	B1	20030818		
MX 9911971	A	20000430	MX 1999-11971	19991217
HK 1030218	A1	20051028	HK 2001-101230	20010221
US 2002007062	A1	20020117	US 2001-882264	20010615
US 6630461	B2	20031007		
US 2002045753	A1	20020418	US 2001-945782	20010904
US 6599903	B2	20030729		
US 2002042511	A1	20020411	US 2001-953682	20010917
US 6586454	B2	20030701		
US 2003078420	A1	20030424	US 2002-191950	20020709
US 6809088	B2	20041026		
US 2005043397	A1	20050224	US 2004-898916	20040726
US 2005187272	A1	20050825	US 2005-105291	20050413

L13 ANSWER 161 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
PRIORITY APPLN. INFO.: FR 1997-7701 A 19970620
FR 1997-3528 A 19970324
WO 1998-FR288 W 19980216
WO 1998-FR1250 W 19980615
US 1999-381749 A2 19990922
US 1999-456205 A3 19991207
US 2001-882264 A3 20010615
US 2002-191950 A3 20020709
US 2004-898916 A3 20040726

OTHER SOURCE(S): MARPAT 130:81398
GI

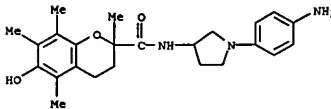


AB Amidines AXHetYC6H4N:CBNH2 [A = H, (un)substituted HOC6H4, 6-hydroxy-2,5,7,8-tetramethylchroman-2-yl; B = (un)substituted alkyl, Ph, pyridyl, thienyl, furyl, pyrrolyl, thiazolyl; X = (un)substituted CONHX1, NHCOX1, CH: CO, bond; X1 = (CH2)n; n = 0-6; Y = Y1, CONHY1, NHCOPY1, COY1, Y1CO, (un)substituted NHY1, Y1NH, Y1CH2NHCO, OY1, SY1, Y1S, Y1OY1, Y1NHY1; Y1 = (CH2)n; Het = (un)substituted heterocyclic] were prepared for use as NO synthase inhibitors and reactive oxygen species traps. Thus, 4-FC6H4NO2 was treated with imidazole and the 1-p-nitrophenylimidazole reduced to the amine and treated with the thiophene fragment to give the amidine I. I had an NO synthetase-inhibiting IC50 < 3.5 μM.

IT 218944-33-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of novel 2-(iminomethyl)aminophenyl derivs. as NO synthase inhibitors and traps for radical oxygen species)

RN 218944-33-3 CAPLUS
CN 2H-1-Benzopyran-2-carboxamide, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)

L13 ANSWER 161 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L13 ANSWER 162 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 1999:12188 CAPLUS
DOCUMENT NUMBER: 130:71279
TITLE: Oxidative hair dye compositions containing
1-(4-aminophenyl)pyrrolidines
INVENTOR(S): Anderson, James S.; Wong, Michael Y. M.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 12 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5851237	A	19981222	US 1997-892339	19970714
CA 2242686	AA	19990114	CA 1998-2242686	19980708
EP 891765	A2	19990120	EP 1998-202318	19980709
EP 891765	A3	20000105		
EP 891765	B1	20040616		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

PRIORITY APPLM. INFO.: US 1997-892339 A 19970714

OTHER SOURCE(S): MARPAT 130:71279

AB Compns. and methods for the oxidative coloring of human hair containing 1-(4-aminophenyl)pyrrolidines are provided. The compns. of the invention contain as a primary dye intermediate a 1-(4-aminophenyl) pyrrolidine, or a cosmetically acceptable salt thereof. The compns. may also contain at least one other primary intermediate and conventional coupling compds., in addition to an oxidizing agent and other components typically used in oxidative hair dye preps. Preferred dye intermediates in the compns. of the invention include 1-(4-aminophenyl) pyrrolidine and 1-(4-amino-3-methylphenyl) pyrrolidine, or cosmetically acceptable salts thereof, which produce intense neutral colors when used in admixt. with a suitable coupling agents, such as 3-aminophenol, in conventional hair dye base formulations. Thus, 378.8 g 1-(4-nitrophenyl)pyrrolidine (preparation given), 12.0 g Darco KB carbon, and 10% palladium on carbon were suspended in 1300 mL ethanol and hydrogenated. The mixture was then filtered, and the filtrate was stirred in an ice/acetone bath and a cold solution of concentrated H2SO4 (204 g) in 150 mL ethanol was added dropwise over 1 h. The resultant precipitate was filtered, washed, and dried to obtain 325 g of 1-(4-aminophenyl)pyrrolidine sulfate (II). A hair dye contained 1.0, m-aminophenol 0.5, resorcinol 0.5, 1-naphthol 0.1, isopropanol 10, propylene glycol 15, oleic acid 14, nonoxynol-2 9, cocoamide DEA 1, ammonium hydroxide 10, sodium sulfite 0.1, and water q.s. 100%.

IT 218139-56-1P 218139-57-2P 218139-58-3P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oxidative hair dye compns. containing aminophenylpyrrolidines)

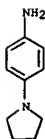
RN 218139-56-1 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)-, sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1

L13 ANSWER 162 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
CRN 7664-93-9
CMF H2 O4 S

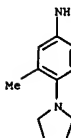


CM 2
CRN 2632-65-7
CMF C10 H14 N2



RN 218139-57-2 CAPLUS
CN Benzenamine, 3-methyl-4-(1-pyrrolidinyl)-, sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1
CRN 16089-43-3
CMF C11 H16 N2



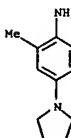
CM 2
CRN 7664-93-9
CMF H2 O4 S

L13 ANSWER 162 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



RN 218139-58-3 CAPLUS
CN Benzenamine, 2-methyl-4-(1-pyrrolidinyl)-, sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1
CRN 143525-69-3
CMF C11 H16 N2



CM 2
CRN 7664-93-9
CMF H2 O4 S



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

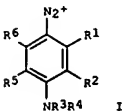
FORMAT

L13 ANSWER 163 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 1998:813816 CAPLUS
DOCUMENT NUMBER: 130:117388
TITLE: Photothermographic material using diazo compound
INVENTOR(S): Jinbo, Yoshihiro; Yanagihara, Naoto; Iwakura, Ken; Takeuchi, Yosuke; Ishige, Sadao; Nomura, Kimiatsu
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JXOXAIF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10337961	A2	19981222	JP 1997-152414	19970610
JP 3693679	B2	20050817		

PRIORITY APPLM. INFO.: JP 1997-152414 19970610

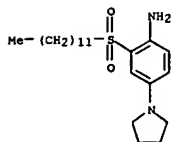
OTHER SOURCE(S): MARPAT 130:117388
GI



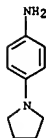
AB The title material comprising a support coated with a photo- and heat-sensitive recording layer containing a diazo compound I (R1 = alkylsulfonyl, arylsulfonyl, alkylsulfinyl, arylsulfinyl, alkylsulfonyl, arylsulfonyl, sulfamoyl, alkoxycarbonyl, carbamoyl, carboxyl, acyl, cyano; R2, R5, R6 = H, alkyl, aryl, alkoxy, halo; R3, R4 = H, alkyl, aryl, R3 and R4, R2 and R3 or R4 and R5 may link to form a ring; X = anion) which is microencapsulated and a coupler. The material provides high d. images with good lightfastness and shows high light-fixing rate and storage stability.

IT 219648-47-2P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(diazotization of: preparation of diazo compound)

RN 219648-47-2 CAPLUS
CN Benzenamine, 2-(dodecylsulfonyl)-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



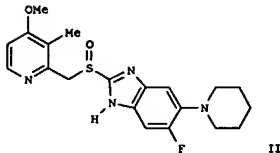
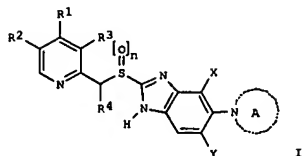
L13 ANSWER 164 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:804820 CAPLUS
 DOCUMENT NUMBER: 130:165653
 TITLE: Exploring the Structure of a Photosynthetic Model by Quantum-Chemical Calculations and Time-Resolved Q-Band
 AUTHOR(S): Electron Paramagnetic Resonance Kiefer, Andreas M.; Kast, Stefan M.; Wasielewski, Michael R.; Leukenmann, Karl; Kothe, Gerd
 CORPORATE SOURCE: Department of Physical Chemistry, University of Freiburg, Freiburg, D-79104, Germany
 SOURCE: Journal of the American Chemical Society (1999), 121(1), 188-198
 CODEN: JACSAT; ISSN: 0002-7863
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The structure of the covalent photosynthetic model system N,N,N',N'-tetraalkyl-p-phenylenediamine-zinc porphyrin-naphthoquinone (TAPD-ZnP-NQ) has been explored by using a combination of theor. and exptl. techniques. Structural information is extracted from high-level quantum-chemical ab initio calcns., which is a nontrivial task for a large mol. like TAPD-ZnP-NQ. This problem was tackled by dividing the model system into smaller mol. fragments, whose geometries can be optimized sep. The fragments are subsequently fitted together, thus providing an approx. structure of the entire model system. To verify this structure, time-resolved Q-band ESR expts. on the light-induced radical pair TAPD+ NQ- have been carried out. The time evolution of the transverse magnetization of TAPD+ NQ- is monitored at various static magnetic fields. Quantum beat oscillations are observed at early times after the laser pulse. These quantum beats are highly sensitive probes for the geometry of the underlying radical pair. From the good agreement between observed and simulated EPR time profiles, it is concluded that the ab initio calcns. predict the correct geometry within the exptl. precision.
 IT 2632-65-7D, benz-annealed, dialkyl
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
 (structure of photosynthetic model studied by quantum-chemical calcns. and time-resolved Q-band ESR)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



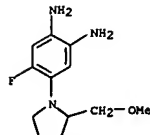
REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS

L13 ANSWER 165 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:795006 CAPLUS
 DOCUMENT NUMBER: 130:38379
 TITLE: Preparation of novel benzimidazoles as antiulcer agents
 INVENTOR(S): Lohray, Braj Bhushan; Lohray, Vidya Bhushan; Guntupalli, Prasuna; Kommireddi, Narayan Reddy; Nammoor, Prem Kumar; Ramanujam, Rajagopalan
 PATENT ASSIGNEE(S): Reddy's Research Foundation, India; Reddy-Cheminar, Inc.
 SOURCE: PCT Int. Appl., 147 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

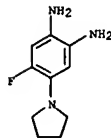
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9854172	A1	19981203	WO 1998-US4814	19980310
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, NX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9865511	A1	19981230	AU 1998-65511	19980310
EP 983263	A1	20000308	EP 1998-911586	19980310
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002510293	T2	20020402	JP 1999-500638	19980310
PRIORITY APPLN. INFO.:			WO 1998-US4814	A 19980310
OTHER SOURCE(S):		MARPAT 130:38379		
GI				



AB The title compds. (I; X, Y = H, halo, (un)halogenated C1-6 alkoxy, etc.;
 A = (un)substituted 3-7 membered nitrogen-containing heterocycle excluding (un)substituted pyrroles; A may further contain one or more heteroatoms selected from N, O, S, NR5 (wherein R5 = H, C1-6 alkyl, aralkyl, etc.);
 R4 = H, halo, C1-3 alkyl; R2, R3 = H, halo, NO2, etc.; R1 = H, halo, C1-8 alkyl, etc.; n = 0-2), useful for prophylaxis or treatment of gastric and duodenal ulcers, as cytoprotective agents for gastrointestinal tract and as antibacterial agents more specifically as bactericides for *Helicobacter pylori*, or for inhibition of gastric acid, were prepared. Thus, reacting 2-[(4-methoxy-3-methyl)pyridin-2-yl]methylthio]-6-fluoro-5-(piperidin-1-yl)-1H-benzimidazole (preparation given) with m-chloroperbenzoic acid afforded the title compound II which showed 100% H⁺/K⁺-ATPase inhibition at 10 mg/kg.
 IT 216883-39-5P 216883-42-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of novel benzimidazoles as antiulcer agents)
 RN 216883-39-5 CAPLUS
 CN 1,2-Benzenediamine, 4-fluoro-5-[2-(methoxymethyl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)

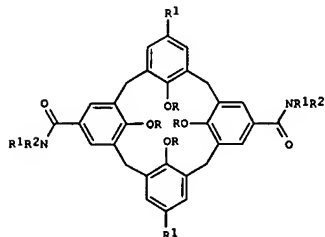


RN 216883-42-0 CAPLUS
 CN 1,2-Benzenediamine, 4-fluoro-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



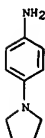
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 166 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:768576 CAPLUS
 DOCUMENT NUMBER: 130:124878
 TITLE: Synthesis and Structural Properties of 5,17-Bis(N-methyl-N-arylaminoacarbonyl)calix[4]arenes. Directing the Substituents toward the Cavity by Use
 of the Cis-Generating Property of the N-Methylaminocarbonyl Linker
 Krebs, Frederik C.; Larsen, Mogens; Jorgensen, Jensen, Pernille R.; Bielecki, Mia; Schaumburg, Kjeld
 CORPORATE SOURCE: Condensed Matter Physics and Chemistry Department, Risø National Laboratory, Roskilde, DK-4000, Den. Journal of Organic Chemistry (1998), 63(26),
 SOURCE: 9872-9879
 PUBLISHER: CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: American Chemical Society
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 130:124878
 GI



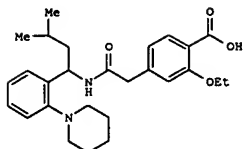
AB A series of cone 5,17-bis(N-arylaminoacarbonyl)calix[4]arenes I (R = Me(CH2)2; R1 = H, Br; R2 = Ph, 4-BrC6H4, 4-(pyrrolidin-1-yl)C6H4, 1-naphthyl, 1-pyrenyl; R3 = Me) were synthesized and N-methylated using an easy and high-yielding methylation procedure. E.g., I (R = Me(CH2)2; R1 = H; R2 = 4-BrC6H4; R3 = H) was methylated with Me iodide and potassium t-butoxide in THF at 25° to give I (R = Me(CH2)2; R1 = H; R2 = 4-BrC6H4; R3 = Me) in 90% yield. The structures of I were studied in solution by NMR spectroscopy and in the solid state by X-ray structural resolution. The use of the N-methylaminocarbonyl linker between the calix[4]arene and the aromatic substituent was found to have a dominant influence on the mol. structure, forcing the substituent toward the cavity of the calix[4]arene regardless of the size of the substituent. The linker may be a very useful structure generator when considering the design of mol. receptors.

L13 ANSWER 166 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 IT 2632-65-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation and conformational properties of methylarylaminoacarbonylcalixarenes)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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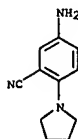
L13 ANSWER 167 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:762251 CAPLUS
 DOCUMENT NUMBER: 130:133641
 TITLE: Repaglinide and Related Hypoglycemic Benzoic Acid Derivatives
 AUTHOR(S): Grell, Wolfgang; Hurnaus, Rudolf; Griss, Gerhart; Sauter, Robert; Rupprecht, Eckhard; Mark, Michael; Luger, Peter; Nar, Herbert; Wittneben, Helmut; Mueller, Peter
 CORPORATE SOURCE: Departments of Chemical and Biological Research, Boehringer Ingelheim Pharma KG, Biberach, D-88397, Germany
 SOURCE: Journal of Medicinal Chemistry (1998), 41(26), 5219-5246
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



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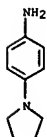
AB The structure-activity relationships in two series of hypoglycemic benzoic acid derivs. were investigated. Some of the compds. resulted from meglitinide when the 2-methoxy was replaced by an alkyleneimino residue. Maximum activity was observed with the cis-3,5-dimethylpiperidino- and the octamethyleneimino- compds. Other compds. resulted from the meglitinide analogs bearing an inverse amido function when the 2-methoxy, the 5-fluoro, and the α -Me residue were replaced by a 2-piperidino, a 5-hydrogen, and a larger α -alkyl residue, resp. An alkoxy residue ortho to the carboxy group further increased activity and duration of action in the rat. The most active racemic compound, I turned out to be 12 times more active than the sulfonylurea (SU) glibenclamide. Activity was found to reside predominantly in the (S)-enantiomers. Repaglinide turned out to be a useful therapeutic for type 2 diabetic patients; approval was granted recently by the FDA and the EMEA. From investigations on the pharmacophoric groups, it was concluded that in addition to the two already known-the acidic group (COOH; SO₂NH) and the amidic spacer (CONH; NHCO)-the ortho residue R1 (alkyleneimino; alkoxy; oxo) must be regarded as a third one. A general pharmacophore model suitable for hypoglycemic benzoic acid derivs., SUs, and sulfonamides is proposed (Figure 6). Furthermore, from superpositions of low-energy conformations (LECs), it was concluded that a common binding conformation may exist and that differences in binding to the SU receptor and in the mechanism of insulin

L13 ANSWER 167 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 release between repaglinide and the two SUs may be due to specific hydrophobic differences.
 IT 219921-68-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and antidiabetic structure-activity relations of repaglinide and related benzoic acid deriva.)
 RN 219921-68-3 CAPLUS
 CN Benzonitrile, 5-amino-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



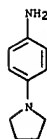
REFERENCE COUNT: 70 THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L13 ANSWER 168 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:690559 CAPLUS
 DOCUMENT NUMBER: 130:46622
 TITLE: Synthetic and spectral studies of iminoquinolinone-type ligands and their complexes
 AUTHOR(S): Ou, Jiunn Yau; Kuo, Kung Tu
 CORPORATE SOURCE: Dep. Chem. Eng., Natl. Central Univ., Taiwan
 SOURCE: Huaxue (1998), 56(3), 187-194
 CODEN: HUHS22; ISSN: 0441-3768
 PUBLISHER: Chinese Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 AB The iminoquinolinone-type ligands (IQLO) were synthesized by condensing 4-alkylaminopenylamines or hydroxy aromatic amines with 8-hydroxyquinoline (8HQ) in the presence of an oxidizing agent. The reaction of 4-alkylaminopenylamines with 8HQ probably proceeds by oxidation of aromatic hydroxy amines with O and gave IQLO in 83-98% yields. The metal complexes containing IQLO were synthesized these complexes exhibited absorption bands at 581-757 nm. Also, EA, UV and IR were used to characterize these complexes. Coordination occurs via the O atom of the quinoneimine moiety and the N atom of the pyridine moiety, as suggested by the above results.
 IT 2632-65-7, 4-Pyrrolidinoaniline 216670-47-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (for preparation of iminoquinolinones and their transition metal complexes)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 216670-47-2 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 168 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



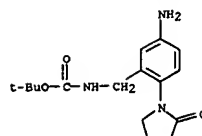
● HCl

L13 ANSWER 169 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1998:672514 CAPLUS
 DOCUMENT NUMBER: 129:275924
 TITLE: Preparation of hetero-tricyclic compounds as nitric oxide synthase inhibitors
 INVENTOR(S): Sekiguchi, Nobuo; Makino, Toshihiko; Esaki, Toru; Emura, Takashi; Kitoh, Yasushi
 PATENT ASSIGNEE(S): Chugai Seiyaku Kabushiki Kaisha, Japan
 SOURCE: PCT Int. Appl., 56 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9842667	A1	19981001	WO 1998-JP1257	19980324
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9864219	A1	19981020	AU 1998-64219	19980324
JP 10324677	A2	19981208	JP 1998-75790	19980324
PRIORITY APPLN. INFO.:			JP 1997-110039	A 19970324
			WO 1998-JP1257	W 19980324

OTHER SOURCE(S): MARPAT 129:275924
 AB The title compds. R1R2NH [R1 is a nitrogenous hetero-tricyclic group which may be substituted with lower alkyl and/or halogeno at an arbitrary position; and R2 is optionally substituted Ph, optionally substituted pyridyl, etc.] are prepared 7-(8-Ethylisothioureido)-1,2,3,4a,4,5-hexahydroindolo[1,2-a]quinazoline ditrifluoroacetate in vitro showed
 IC50 values of 13.7 nM, 1082 nM, and 11193 nM against nNOS, eNOS, and iNOS, resp.
 IT 213777-76-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of hetero-tricyclic compds. as nitric oxide synthase inhibitors)
 RN 213777-76-5 CAPLUS
 CN Carthamic acid, [[5-amino-2-(2-oxo-1-pyrrolidinyl)phenyl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L13 ANSWER 169 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



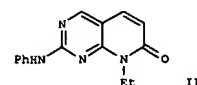
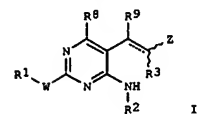
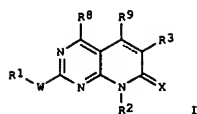
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 170 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 1998:543072 CAPLUS
 DOCUMENT NUMBER: 129:161569
 TITLE: Preparation of pyrido[2,3-d]pyrimidines and 4-aminopyrimidines as inhibitors of cellular proliferation
 INVENTOR(S): Boschelli, Diane Harris; Dobrusin, Ellen Myra; Doherty, Annette Marian; Fattacy, Ali; Fry, David W.; Barvian, Mark R.; Kallmeyer, Susanne Trumpp; Wu, Zhipei
 PATENT ASSIGNEE(S): Warner Lambert Company, USA
 SOURCE: PCT Int. Appl., 170 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9833798	A2	19980806	WO 1998-US1343	19980126
WO 9833798	A3	19981105		
W:	AL, AU, BA, BB, BG, BR, CA, CH, CZ, EE, GE, HU, ID, IL, IS, JP, KZ, LC, LK, LR, LT, LV, MG, MK, MN, MO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
CA 2271157	AA	19980806	CA 1998-2271157	19980126
AU 9864480	A1	19980825	AU 1998-66480	19980126
AU 749750	B2	20020704		
EP 964864	A2	19991222	EP 1998-908442	19980126
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
BR 9807305	A	20000502	BR 1998-7305	19980126
NZ 335666	A	20001027	NZ 1998-335666	19980126
JP 2001509805	T2	20010724	JP 1998-532971	19980126
ZA 9800914	A	19981109	ZA 1998-914	19980204
US 6498163	B1	20021224	US 1999-355681	19990802
PRIORITY APPLN. INFO.:			US 1997-37220P	P 19970205
			US 1997-69743P	P 19971216
			WO 1998-US1343	W 19980126

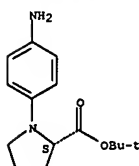
OTHER SOURCE(S): MARPAT 129:161569
 GI

L13 ANSWER 170 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



AB The title compds. [I and II; W = NH, S, SO, SO2; X = O, NH; R1, R2 = H, C1-10 alkyl, C3-10 cycloalkyl, etc.; R3 = H, alkyl; R8, R9 = H, C1-3 alkyl, OH, etc.; Z = CO2H] which inhibit a cyclin-dependent kinase (cdc2, cdk2, cdk4, cdk6) and a growth factor-mediated tyrosine kinase (FGF and PDGF) and therefore are useful for treating cell proliferative disorders, such as cancer and restenosis, were prepared and formulated. Thus, treatment of Et 3-(4-ethylamino-2-phenylaminopyrimidin-5-yl)acrylate with 1,8-diazabicyclo[5.4.0]undec-7-ene in Et3N afforded the title compound
 III which showed IC50 of 0.41 and 0.752 μM against cdk2/E and cdk4/D, resp.
 IT 211247-49-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of pyrido[2,3-d]pyrimidines and 4-aminopyrimidines as inhibitors of cellular proliferation)
 RN 211247-49-3 CAPLUS
 CN L-Proline, 1-(4-aminophenyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

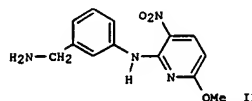
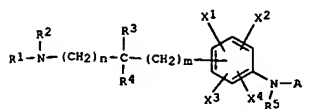


L13 ANSWER 171 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:479495 CAPLUS
 DOCUMENT NUMBER: 129:108995
 TITLE: Preparation of aromatic and heterocyclic amine derivatives as NOS inhibitors
 INVENTOR(S): Esaki, Toru; Makino, Toshihiko; Nishimura, Yoshikazu; Nagafuji, Toshiaki
 PATENT ASSIGNEE(S): Chugai Seiyaku Kabushiki Kaisha, Japan
 SOURCE: PCT Int. Appl., 165 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9828257	A1	19980702	WO 1997-JP4762	19971224
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2275933	AA	19980702	CA 1997-2275933	19971224
AU 9853394	A1	19980717	AU 1998-53394	19971224
AU 742388	B2	20020103		
JP 10237028	A2	19980908	JP 1997-366474	19971224
EP 949242	A1	19991013	EP 1997-950368	19971224
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
CN 1240419	A	20000105	CN 1997-180594	19971224
RU 2193554	C2	20021127	RU 1999-116598	19971224
TW 584622	B	20040421	TW 1997-86119687	19971224
NO 9903109	A	19990824	NO 1999-3109	19990622
US 6331553	B1	20011218	US 1999-331733	19990624
JP 1996-359791				A 19961224
WO 1997-JP4762				W 19971224

OTHER SOURCE(S): MARPAT 129:108995
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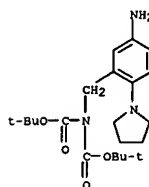
L13 ANSWER 171 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB The title compds. I [R1 and R2 represent each hydrogen, etc.; R3 and R4 represent each hydrogen, lower alkyl, etc.; R5 represents hydrogen, etc.; X1, X2, X3 and X4 represent each hydrogen, lower alkoxy, etc.; A represents an optionally substituted pyridine ring, etc.; and m and n are each 0 or 1] are prepared I are useful as pharmaceuticals for cerebrovascular disorders, etc. The title compound II in vitro showed

IC50 values of 22.6 nM and 916.7 nM against nNOS and iNOS, resp.

IT 180150-02-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of aromatic and heterocyclic amine derivs. as NOS inhibitors)
 RN 180150-02-1 CAPLUS
 CN Imidodicarbonic acid, [[5-amino-2-(1-pyrrolidinyl)phenyl]methyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

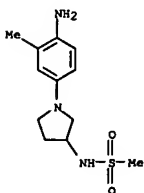


REFERENCE COUNT: 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L13 ANSWER 172 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:361171 CAPLUS
 DOCUMENT NUMBER: 129:101876
 TITLE: Color image-forming method using p-phenylenediamine color developer and processing solution replenishing method
 INVENTOR(S): Miyazawa, Kazuhiro; Tanaka, Shigeo
 PATENT ASSIGNEE(S): Konica Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 39 pp.
 CODEN: JQXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

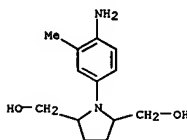
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10153847	A2	19980609	JP 1996-312027	19961122
JP 1996-312027				19961122

OTHER SOURCE(S): MARPAT 129:101876
 AB Color photog. image is formed by using ≥1 p-phenylenediamine derivs., represented as 7 types of Markush structures, as color developers. Measured amount of H2O2 or a H2O2-added compound is replenished in an amplifying development process and a bleaching process from a H2O2 tank or a H2O2 generating apparatus. The material and method provide stable photog. characteristics and an amplifying developer with improved storage stability.
 IT 143525-64-8 209533-19-7
 RL: TEM (Technical or engineered material use); USES (Uses)
 (developer; p-phenylenediamine derivative as amplifying photog. developer and replenishment of hydrogen peroxide (-added product) for)
 RN 143525-64-8 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



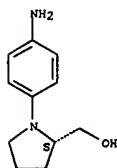
RN 209533-19-7 CAPLUS
 CN 2,5-Pyrrolidinedimethanol, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 172 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 173 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:191905 CAPLUS
 DOCUMENT NUMBER: 128:287996
 TITLE: Synthesis, structure and second-order nonlinear optical properties of highly functionalized 6-aminopentafulvenes
 AUTHOR(S): Diaz-garcia, Maria A.; Agullo-lopez, Fernando; Ledoux, Isabelle; Zyss, Joseph; Kato, Midori; Kiguchi, Masashi;
 Miranda, M. Mar; Munoz, Montserrat; Soler, Elena; Sorribes, Silvia; Germain, Gabriel
 CORPORATE SOURCE: Univ. Autònoma de Barcelona, Barcelona, 08193, Spain
 SOURCE: Journal of Materials Chemistry (1998), 8(3), 619-627
 CODEN: JMACEP; ISSN: 0959-9428
 PUBLISHER: Royal Society of Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Novel donor-acceptor functionalized pentafulvenes have been synthesized and characterized. Structural data have been obtained by single crystal X-ray diffraction. Their mol. and macroscopic second-order nonlinear optical properties have been investigated, via elec. field induced second harmonic generation (EFISH) in solution and by second harmonic generation with evanescent wave (SHEW) in the solid state.
 IT 132041-37-3P, (S)-N-(p-Aminophenyl)prolinol
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis, structure and second-order nonlinear optical properties of highly functionalized 6-aminopentafulvenes).
 RN 132041-37-3 CAPLUS
 CN 2-pyrrolidinemethanol, 1-(4-aminophenyl)-, (2S)- (9CI) (CA INDEX NAME)

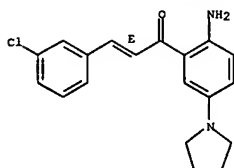
Absolute stereochemistry.



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

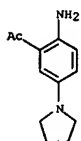
L13 ANSWER 174 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RN 204841-37-2 CAPLUS
 CN 2-Propen-1-one, 1-[2-amino-5-(1-pyrrolidinyl)phenyl]-3-(3-chlorophenyl)-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 174 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:169729 CAPLUS
 DOCUMENT NUMBER: 128:238976
 TITLE: Antitumor Agents. 181. Synthesis and Biological Evaluation of 6,7,2',3',4'-Substituted-1,2,3,4-tetrahydro-2-phenyl-4-quinolones as a New Class of Antimitotic Antitumor Agents
 AUTHOR(S): Xia, Yi; Yang, Zheng-Yu; Xia, Peng; Bastow, Kenneth F.; Tachibana, Yoko; Kuo, Sheng-Chu; Hamel, Ernest; Hackl, Torben; Lee, Kuo-Hsiung
 CORPORATE SOURCE: Natural Products Laboratory Division of Medicinal Chemistry and Natural Products School of Pharmacy, University of North Carolina, Chapel Hill, NC, 27599, USA
 SOURCE: Journal of Medicinal Chemistry (1998), 41(7), 1155-1162
 CODEN: JMCMAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A novel series of 6,7,2',3',4'-substituted-1,2,3,4-tetrahydro-2-phenyl-4-quinolones were synthesized and evaluated for interactions with tubulin and for cytotoxic activity against a panel of human tumor cell lines, including ileocecal carcinoma (HCT-8), breast cancer (MCF-7), lung carcinoma (A-549), epidermoid carcinoma of the nasopharynx (KB), renal cancer (CAKI-1), and melanoma cancer (SKMEL-2). Most compds. showed potent cytotoxic and antitubulin effects. The most active compds. demonstrated strong cytotoxic effects with ED50 values in the nanomolar or subnanomolar range in almost all tumor cell lines. Three active racemates were separated into the enantiomers, and generally, the optically pure (-)-isomers exhibited greater biol. activity than the racemates or (+)-isomers. Cytotoxicity and antitubulin activity were closely correlated, with the most active compds. having effects comparable to those of colchicine, podophyllotoxin, and combretastatin A-4.
 IT 56915-84-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (synthesis and biol. evaluation of tetrahydrophenylquinolones as a new class of antimitotic antitumor agents)
 RN 56915-84-5 CAPLUS
 CN Ethanone, 1-[2-amino-5-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)

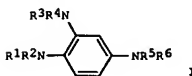


IT 204841-37-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and biol. evaluation of tetrahydrophenylquinolones as a new class of antimitotic antitumor agents)

L13 ANSWER 175 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:65787 CAPLUS
 DOCUMENT NUMBER: 128:145147
 TITLE: Oxidative hair dyes
 INVENTOR(S): Blittner, Andreas Joachim; Kleen, Astrid
 PATENT ASSIGNMENT(S): Hans Schwarzkopf GmbH, Germany
 SOURCE: PCT Int. Appl., 62 pp.
 CODEN: PIXKD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

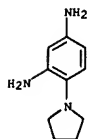
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9801106	A2	19980115	WO 1997-EP3521	19970703
WO 9801106	A3	19980305		
W: JP, US RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 19728147	A1	19980618	DE 1997-19728147	19970703
EP 912160	A2	19990506	EP 1997-931764	19970703
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, FI				
JP 2000514073	T2	20001024	JP 1998-504764	19970703
US 2001005914	A1	20010705	US 1999-214062	19991208
PRIORITY APPLN. INFO.:				
DE 1996-19626617 A 19960703				
DE 1996-19626682 A 19960703				
DE 1996-19626744 A 19960703				
WO 1997-EP3521 W 19970703				

OTHER SOURCE(S): MARPAT 128:145147
 GI



AB Oxidative dyes which are particularly suitable for dyeing keratin fibers contain as dye precursor 2,1-diaminoaniline 1 [R1-R6 = H, Cl-4 alkyl, C2-3 hydroxyalkyl, alkoxyalkyl, C2-3 (alkyl-substituted) aminoalkyl, 2,3-dihydroxypropyl; not all of R1-R6 = H; or R1NR2, R3NR4, and/or R5NR6 = (substituted) 3-8-membered ring] or physiol. tolerable salts thereof with inorg. and organic acids. Shades of color are obtained which have a high level of brilliancy and color fastness. Thus, 2-nitro-5-acetylaminochlorobenzene was substituted with MeNH2 to form N-methyl-2-nitro-5-acetylaminoaniline, which was hydrolyzed to the 5-amino compound by refluxing with concentrated HCl and reduced with H2 over Pd/C to yield N-methyl-2,5-diaminoaniline, isolated as the sulfate (II). A hair-dyeing gel was prepared containing II 2.49, p-aminophenol (developer) 1.09, oleic acid

L13 ANSWER 175 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 12.0, iso-PrOH 12.0, Nonoxynol-4 5.0, 25% NH3 soln. 10.0, anhyd. Na2SO3
 0.5, and water to 100 g. This gel compn., mixed 1:1 with 6% aq. H2O2
 soln. and applied to gray hair for 30 min at room temp., produced a
 bright violet-red color.
 IT 202279-21-8P
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (oxidative hair dyes)
 RN 202279-21-8 CAPLUS
 CN 1,3-Benzenediamine, 4-(1-pyrrolidinyl)-, sulfate (1:1) (9CI) (CA INDEX
 NAME)
 CM 1
 CRN 202279-20-7
 CMF C10 H15 N3

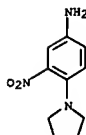


CM 2
 CRN 7664-93-9
 CMF H2 O4 S



IT 5367-57-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (oxidative hair dyes)
 RN 5367-57-7 CAPLUS
 CN Benzenamine, 3-nitro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

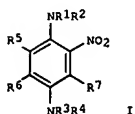
L13 ANSWER 175 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 176 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:38507 CAPLUS
 DOCUMENT NUMBER: 128:145143
 TITLE: Direct hair dyes containing 2-nitroaniline
 derivatives
 INVENTOR(S): Bittner, Andreas
 PATENT ASSIGNEE(S): Hans Schwarzkopf G.m.b.H., Germany
 SOURCE: Ger. Offen., 18 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

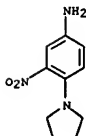
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19728336	A1	19980108	DE 1997-19728336	19970703
PRIORITY APPLN. INFO.:			DE 1997-19728336	A1 19970703
			DE 1996-19626739	19960703

 OTHER SOURCE(S): MARPAT 128:145143
 GI



AB Direct dyes which are particularly suitable for dyeing keratin fibers
 contain 21 2-nitroaniline derivative I (R1-R4 = H, alkyl, hydroxyalkyl,
 alkoxyalkyl, carbamylalkyl, mesylaminoalkyl, sulfoalkyl,
 (amino-substituted) Ph, etc.; not all of R1-R4 = H; or R1NR2 and/or R3NR4
 = (substituted) 3-8-membered ring; R5-R7 = H, C1-4 alkyl or alkoxy, CO2H,
 SO3H, C2-4 hydroxyalkyl or physiolo. tolerable salts thereof with inorg.
 and organic acids. Shades of color are obtained which have a high level
 of
 brilliancy; the range of color nuances is increased by combination with
 other direct dyes or oxidative dye precursors. Thus, 4-fluoro-3-
 nitroaniline was heated with morpholine in the presence of Na2CO3 to form
 N-(4-amino-2-nitrophenyl)morpholine. A hair-dyeing Cream was prepared
 containing N-(4-amino-2-nitrophenyl)morpholine 3.0, 70% SDS solution
 2.0, oleic
 acid 2.0, anhydrous Na2SO3 0.6, stearyl alc. 10.0, myristyl alc. 6.0,
 propylene glycol 1.0, 25% NH3 solution 8.0, and H2O to 100 g.
 IT 5367-57-7P
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); USES (Uses)
 (direct hair dyes containing 2-nitroaniline deriva.)
 RN 5367-57-7 CAPLUS
 CN Benzenamine, 3-nitro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 176 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

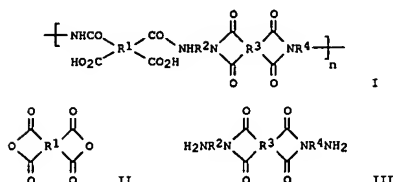


L13 ANSWER 177 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1997:496275 CAPLUS
 DOCUMENT NUMBER: 127:197826
 TITLE: Imido-containing polyamic acid, its manufacture, and liquid-crystal orienting agent using it for display
 INVENTOR(S): Kawamura, Shigeo; Yamamoto, Keiichi; Nishikawa, Michinori; Matsuki, Yasuo
 PATENT ASSIGNEE(S): Japan Synthetic Rubber Co., Ltd., Japan; JSR Ltd.
 SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09185064	A2	19970715	JP 1995-343560	19951228
JP 3612832	B2	20050119		

PRIORITY APPLN. INFO.: JP 1995-343560 19951228

GI



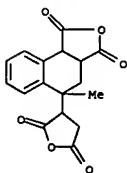
AB A polyamic acid I (R1, R3 = tetravalent organic group; R2, R4 = divalent organic group) is claimed. The polyamic acid is manufactured by treating a tetracarboxylic dianhydride II and an imido-containing diamine compound III.

III. The orienting agent contains 21 polymer selected from the polyamic acid and its derivative obtained by partial imidization. Oriented films containing the agent show good adhesion with substrates, high rubbing resistance, and stable pretilt angle.

IT RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (liquid-crystal orienting agent using imido-containing polyamic acid for display)

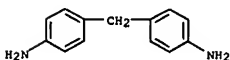
RN 194216-37-0 CAPLUS
 CN Cholestane-3,6-diol, bis(4-aminobenzoate), (3B,5a)-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isoindole-1,3(2H)-dione, 1H,3H-benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone and 4,4'-(1-methylethylidene)bis(4,1-phenyleneoxy))bis[benzenamine] (9CI) (CA INDEX NAME)

L13 ANSWER 177 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



CM 4

CRN 101-77-9
 CMF C13 H14 N2

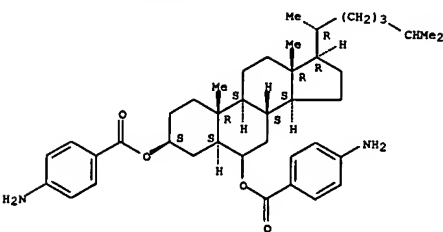


RN 194216-42-7 CAPLUS
 CN Cholestane-3,6-diol, bis(4-aminobenzoate), (3B,5a)-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isoindole-1,3(2H)-dione, 1H,3H-benzo[1,2-c:4,5-c']difuran-1,3,5,7-tetrone and 4,4'-(1-methylethylidene)bis(4,1-phenyleneoxy))bis[benzenamine] (9CI) (CA INDEX NAME)

CM 1

CRN 194216-36-9
 CMF C41 H58 N2 O4

Absolute stereochemistry.

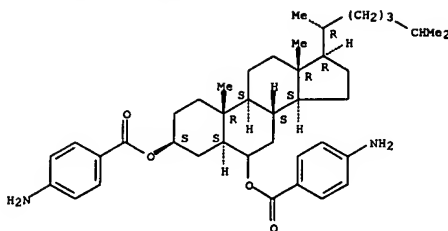


L13 ANSWER 177 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CM 1

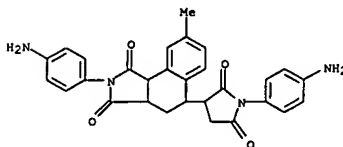
CRN 194216-36-9
 CMF C41 H58 N2 O4

Absolute stereochemistry.



CM 2

CRN 194216-35-8
 CMF C29 H26 N4 O4



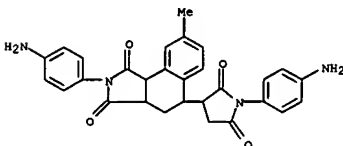
CM 3

CRN 67879-21-4
 CMF C17 H14 O6

L13 ANSWER 177 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

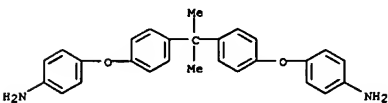
CM 2

CRN 194216-35-8
 CMF C29 H26 N4 O4



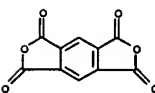
CM 3

CRN 13080-86-9
 CMF C27 H26 N2 O2



CM 4

CRN 89-32-7
 CMF C10 H2 O6

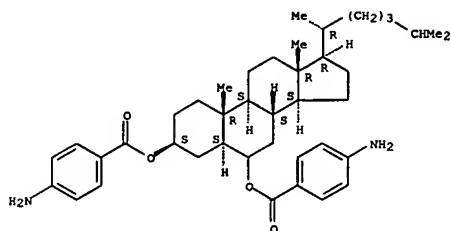


RN 194216-46-1 CAPLUS
 CN Cholestane-3,6-diol, bis(4-aminobenzoate), (3B,5a)-, polymer with 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl-1H-benz[e]isoindole-1,3(2H)-dione, 4,4'-methylenebis[benzenamine] and tetrahydro-3a,6a-dimethylcyclobut[1,2-c:3,4-c']difurantetrone (9CI) (CA INDEX NAME)

CM 1

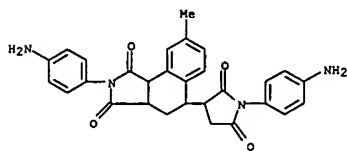
CRN 194216-36-9
CMF C41 H58 N2 O4

Absolute stereochemistry.



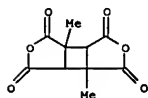
CM 2

CRN 194216-35-8
CMF C29 H26 N4 O4



CM 3

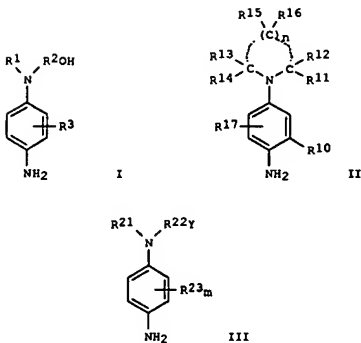
CRN 137820-87-2
CMF C10 H8 O6



ACCESSION NUMBER: 1997:247762 CAPLUS
DOCUMENT NUMBER: 126:231465
TITLE: Development intensification process of color photographic silver halide material
INVENTOR(S): Schumck, Arno; Hagemann, Joerg; Klaunzer, Norman
PATENT ASSIGNEE(S): Agfa-Gevaert Aktiengesellschaft, Germany
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JXOXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09034075	A2	19970207	JP 1996-202768	19960715
DE 19528777	A1	19970123	DE 1995-19528777	19950804
US 5707786	A	19980113	US 1996-677727	19960708
PRIORITY APPLN. INFO.:			DE 1995-19525968	A 19950717
			DE 1995-19528777	A 19950804

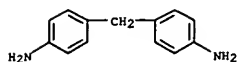
GI



AB The title process utilizes a developing agent(s) selected from I, II and III (R1, R3 = C1-4 alkyl; R2OH; R2 = C1-4 alkylene; R10-17 = H, C1-4 alkyl, OH, COOH, SO3H, PO3H2, halo, alkoxy, acylamino, carbamoyl, sulfamoyl, alkoxy-carbonyl, acyl, ureido, sulfonyl, sulfamoylamino, alkoxy-carbonylamino, acylaminosulfonyl, sulfonylamino-carbonyl; m = 0-2; n = 2-4; R21 = C1-6 alkyl, R22Y; R22 = C2-8 alkylene; R23 = H, C1-4 alkyl,

CM 4

CRN 101-77-9
CMF C13 H14 N2

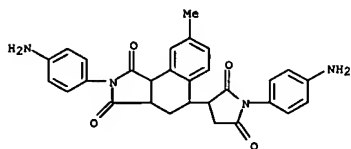


IT 194216-35-8P

RL: PNU (Preparation, unclassified); PREP (Preparation)
(liquid-crystal orienting agent using imido-containing polyamic acid
for display)

RN 194216-35-8 CAPLUS

CM 1H-Benz[e]isoindole-1,3(2H)-dione,
2-(4-aminophenyl)-5-[1-(4-aminophenyl)-
2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-8-methyl- (9CI) (CA INDEX
NAME)



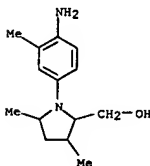
C1-4 alkoxy, halo; Y = SO3H, COOH). The process shows stable processing
and low developer replenishment rates.

IT 188349-02-2

RL: MOA (Modifier or additive use); USES (Uses)
(color photog. developing agent for development intensification
process)

RN 188349-02-2 CAPLUS

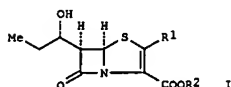
CM 2-Pyrrolidinemethanol, 1-(4-amino-3-methylphenyl)-3,5-dimethyl- (9CI)
(CA INDEX NAME)



L13 ANSWER 179 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1996:612759 CAPLUS
 DOCUMENT NUMBER: 125:247475
 TITLE: Preparation of penem derivatives and antimicrobial agents containing them
 INVENTOR(S): Ishiguro, Masaji; Nakatsuka, Takashi; Tanaka, Rie; Namikawa, Koichi; Matsuki, Shinsuke
 PATENT ASSIGNEE(S): Suntory Limited, Japan
 SOURCE: PCT Int. Appl., 304 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9625417	A1	19960822	WO 1996-JP366	19960219
W: AU, CA, HU, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2188051	AA	19960822	CA 1996-2188051	19960219
AU 9646769	A1	19960824	AU 1996-46769	19960219
AU 718806	B2	20000420		
EP 757051	A1	19970205	EP 1996-902477	19960219
EP 757051	B1	20031029		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 253070	E	20031115	AT 1996-902477	19960219
ES 2206557	T3	20040516	ES 1996-902477	19960219
US 2005004092	A1	20050106	US 2004-831694	20040426
PRIORITY APPLN. INFO.:			JP 1995-52054	A 19950217
			WO 1996-JP366	W 19960219
			US 1996-722144	B1 19961212

OTHER SOURCE(S): MARPAT 125:247475
 GI



AB The title compds. [I; R1 = optionally substituted alkyl, optionally substituted alkenyl, optionally substituted aralkyl, optionally substituted aryl, optionally substituted alkylthio, optionally substituted alkenylthio, optionally substituted aralkylthio, optionally substituted arylthio, optionally substituted heterocycle, optionally substituted heterocyclic thio, optionally substituted acylthio, mercapto or hydrogen; and R2 = hydrogen or a carboxyl protecting group] and their pharmaceutically acceptable salts are prepared. Thus, allyl

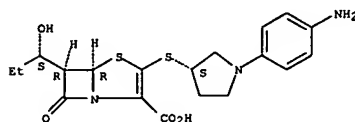
(5R, 6R)-6-[(S)-1-tert-butylidimethylsilyloxypropyl]-2-methylsulfinylpenem-3-carboxylate (preparation given) was reacted with 1-allyloxycarbonyl-3-

L13 ANSWER 179 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 methylpyrrolidine in DMF contg. diisopropylethylamine to give the title compd. I [R1 = 1-(allyloxycarbonyl)-3-pyrrolidinylthio, R2 = allyl]. (5R, 6R)-6-[(S)-tert-butylidimethylsilyloxypropyl]-2-methylthiopem-3-carboxylic acid (also prepd.) had a min. inhibition concn. of 6.25x10⁻⁵ cfu/mL against MRSA. Because of having a potent antimicrobial activity particularly on MRSA, I are useful as an antimicrobial agents for MRSA against which general antimicrobial agents are not efficacious. Pharmaceutical compns. contg. I are described.

IT 181958-98-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of penem deriva. and antimicrobial agents containing them)

RN 181958-98-5 CAPLUS
 CN 4-Thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid, 3-[[1-(4-aminophenyl)-3-pyrrolidinyl]thio]-6-(1-hydroxypropyl)-7-oxo-, [5R-[3(S*),5a,6a(S*)]]- (9CI) (CA INDEX NAME)

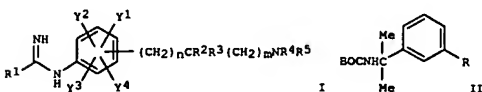
Absolute stereochemistry.



L13 ANSWER 180 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1996:509383 CAPLUS
 DOCUMENT NUMBER: 125:167546
 TITLE: Preparation of aniline derivatives as nitrogen monoxide synthase inhibitors
 INVENTOR(S): Honda, Toshio; Makino, Toshihiko; Nagafuji, Toshiaki; Kito, Yasushi; Kimura, Nobuaki
 PATENT ASSIGNEE(S): Chugai Seiyaku Kabushiki Kaisha, Japan
 SOURCE: PCT Int. Appl., 384 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9618608	A1	19960620	WO 1995-JP2540	19951212
W: AL, AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, KE, KG, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TT, UA, UG, US, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9641240	A1	19960703	AU 1996-41240	19951212
AU 705152	B2	19990513		
EP 798292	A1	19971001	EP 1995-939418	19951212
EP 798292	B1	20041103		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
BR 9510006	A	19971111	BR 1995-10006	19951212
NZ 296594	A	20000228	NZ 1995-296594	19951212
RU 2167858	C2	20010527	RU 1997-111792	19951212
PL 183619	B1	20020628	PL 1995-320829	19951212
AT 281430	E	20041115	AT 1995-939418	19951212
TW 474909	B	20020201	TW 1995-84113596	19951219
US 6534546	B1	20030319	US 1997-849400	19970606
FI 9702460	A	19970811	FI 1997-2460	19970610
NO 9702666	A	19970812	NO 1997-2666	19970610
NO 310615	B1	20010730		
LT 4343	B	19980525	LT 1997-119	19970710
HK 1008867	A1	20020705	HK 1998-109613	19980801
PRIORITY APPLN. INFO.:			JP 1994-336795	A 19941212
			JP 1995-113695	A 19950414
			WO 1995-JP1135	W 19950607
			WO 1995-JP2540	W 19951212

OTHER SOURCE(S): MARPAT 125:167546
 GI



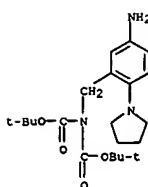
L13 ANSWER 180 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

AB Aniline derivs. [I; R1 = SR6 or NR7R8 (wherein R6 = C1-6 alkyl, etc.; R7 = H, C1-6 alkyl, NO2; R8 = H, C1-6 alkyl); R2, R3 = H, C1-6 alkyl, etc.; R4 = H, C1-6 alkyl, amidino wherein the amine moiety may be substituted by alkyl or nitro; R5 = H, or C1-6 alkyl; Y1-Y4 = H, halo, C1-6 alkoxy, etc.;

m, n = 0, 1], having potent NO synthase inhibitory activity and useful as remedy for cerebrovascular disorders, are prepared. Reduction of nitro compound II (R = NO2) over 10% Pd/C in EtOH gave 76% aniline II (R = NH2), which was treated with CSCL2 in an aqueous CaCO3 suspension and then 28% NH4OH to give 89% thiourea derivative II (R = NHCSNH2). The most active I showed an IC50 of 2.1 nM against NO synthase.

IT 180150-02-1P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of aniline deriva. as nitrogen monoxide synthase inhibitors)

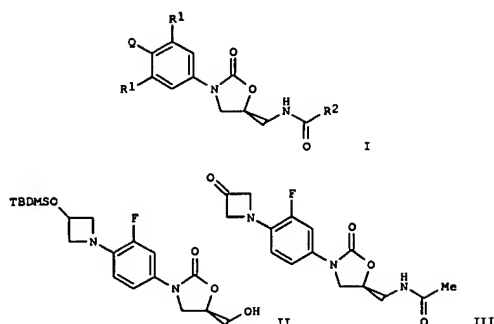
RN 180150-02-1 CAPLUS
 CN Imidodicarbonic acid, ([5-amino-2-(1-pyrrolidinyl)phenyl]methyl)-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



L13 ANSWER 181 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1996:476651 CAPLUS
 DOCUMENT NUMBER: 125:142706
 TITLE: Phenylloxazolidinone antimicrobials
 INVENTOR(S): Hutchinson, Douglas K.; Barbachyn, Michael R.; Taniguchi, Mikio; Munesada, Kiyotaka; Yamada, Hiroyoshi; Brickner, Steven J.
 PATENT ASSIGNEE(S): Upjohn Co., USA
 SOURCE: PCT Int. Appl., 88 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9613502	A1	19960509	WO 1995-US10992	19950912
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TH				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, NR, NE, SN, TD, TG				
CA 2200433	AA	19960509	CA 1995-2200433	19950912
CA 2200433	C	20060207		
AU 9536254	A1	19960523	AU 1995-36254	19950912
AU 694271	B2	19980716		
EP 788498	A1	19970813	EP 1995-933718	19950912
EP 788498	B1	20010816		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1162312	A	19971015	CN 1995-195908	19950912
CN 1068325	B	20010711		
HU 77602	A2	19980629	HU 1997-2015	19950912
BR 9509136	A	19980721	BR 1995-9136	19950912
JP 10508017	T2	19980804	JP 1995-514540	19950912
RU 2134692	C1	19990820	RU 1997-108157	19950912
AT 204277	E	20010915	AT 1995-933718	19950912
ES 2162941	T3	20020116	ES 1995-933718	19950912
PT 788498	T	20020228	PT 1995-933718	19950912
PL 183512	B1	20020628	PL 1995-319873	19950912
SK 282869	B6	20030109	SK 1997-494	19950912
CZ 291847	B6	20030618	CZ 1997-1217	19950912
US 5883093	A	19990316	US 1997-913190	19970423
FI 9701774	A	19970425	FI 1997-1774	19970425
NO 9701946	A	19970625	NO 1997-1946	19970425
NO 309478	B1	20010205		
PRIORITY APPL. INFO.:			US 1994-329717	A2 19941026
			WO 1995-US10992	W 19950912
OTHER SOURCE(S):		MARPAT 125:142706		
GI				

L13 ANSWER 181 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

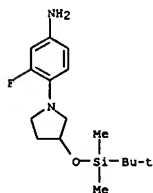


AB Title compds. I [Q = certain substituted 1-azetidinyl and 1-pyrrolidinyl substituents; R1 = H, OMe, F, Cl; R2 = H, (un)substituted alkyl, cycloalkyl, (di)alkylamino, alkoxy] and their pharmaceutically acceptable salts are claimed. The compds. are useful antimicrobial agents, effective against a number of human and veterinary pathogens, particularly aerobic gram-pos. bacteria, including multiply-resistant staphylococci, enterococci and streptococci, as well as anaerobic organisms such as bacteroids and clostridia species, and acid-fast bacteria such as Mycobacterium tuberculosis and other mycobacterial species. For example, 1-(diphenylmethyl)-3-azetidinol-HCl underwent N-deprotection and N-arylation with 3,4-difluoronitrobenzene (65%), O-silylation with tert-BuSiMe2Cl (74%), hydrogenation of the nitro group to an amine and N-benzyloxycarbonylation (43%), and lithiation and reaction with (R)-glycidyl butyrate (75%), to give intermediate oxazolidinylmethanol derivative II. This was subjected to O-mesylation and conversion to an azide (56%), hydrogenolysis of the azide and acetylation of the resulting amine (84%), desilylation, and oxidation of the deprotected alc. (47%), to give title compound III. The MIC values of III against Staphylococcus aureus UC 9213 and Streptococcus pneumoniae UC 9912 were 1 and 0.5 µg/mL, resp.

IT 179620-75-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Intermediate; phenylloxazolidinone antimicrobials)

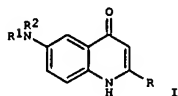
RN 179620-75-8 CAPLUS
 CN Benzenamine,
 4-[3-[[[(1,1-dimethylethyl)dimethylsilyloxy]-1-pyrrolidinyl]-3-fluoro- (9CI) (CA INDEX NAME)]

L13 ANSWER 181 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 182 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1996:449406 CAPLUS
 DOCUMENT NUMBER: 125:114507
 TITLE: Preparation of 2-aryl-4-quinolones as antitumor agents
 INVENTOR(S): Lee, Kuo-Hsiung; Kuo, Sheng-Chu; Wu, Tian-Shung; Wang,
 Hui Kang; Li, Leping
 PATENT ASSIGNEE(S): University of North Carolina at Chapel Hill, USA
 SOURCE: PCT Int. Appl., 30 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

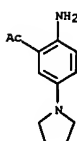
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9610563	A1	19960411	WO 1995-US12589	19950928
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5571822	A	19961105	US 1994-316409	19940930
US 1994-316409			US 1994-316409	A 19940930
PRIORITY APPL. INFO.:				
OTHER SOURCE(S):		MARPAT 125:114507		
GI				



AB Title compds. [I: R = (un)substituted Ph; R1, R2 = alkyl; NR1R2 = heterocyclyl] were prepared. Thus, 2-amino-5-morpholinoacetophenone was cyclcondensed with 3-(MeO)C6H4COCl to give I [R = C6H4(OMe)-3, NR1R2 = morpholino] which had IC50 of 0.36µM against tubulin polymerization in vitro.

IT 56915-84-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of 2-aryl-4-quinolones as antitumor agents)

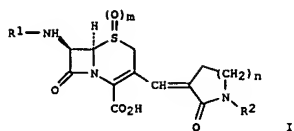
RN 56915-84-5 CAPLUS
 CN Ethanone, 1-[2-amino-5-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



L13 ANSWER 183 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1996:392133 CAPLUS
 DOCUMENT NUMBER: 125:114389
 TITLE: Preparation of cephalosporin antibiotics
 INVENTOR(S): Wei, Chung-Chen; Angehrn, Peter
 PATENT ASSIGNEE(S): Hoffmann-La Roche Inc., USA
 SOURCE: U.S., 117 pp., Cont.-in-part of U.S. Ser. No. 48, 688,
 abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5523400	A	19960604	US 1994-213562	19940321
EP 620225	A1	19941019	EP 1994-104997	19940330
EP 620225	B1	20021113		
R: AT, BE, CH, DE, DK, ES, FR, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 227728	E	20021115	AT 1994-104997	19940330
PT 620225	T	20030331	PT 1994-104997	19940330
ES 2185634	T3	20030501	ES 1994-104997	19940330
CA 2121324	AA	19941017	CA 1994-2121324	19940414
NO 9401342	A	19941017	NO 1994-1342	19940414
GB 2277737	A1	19941109	GB 1994-7400	19940414
GB 2277737	B2	19960925		
RU 2130939	C1	19990527	RU 1994-12924	19940414
FI 9401775	A	19941017	FI 1994-1775	19940415
FI 115525	B1	20050531		
ZA 9402612	A	19941017	ZA 1994-2612	19940415
AU 9459494	A1	19941020	AU 1994-59494	19940415
AU 675695	B2	19970213		
BR 9401503	A	19941025	BR 1994-1503	19940415
JP 06321954	A2	19941122	JP 1994-101558	19940415
JP 2845752	B2	19990113		
LT 3289	B	19950626	LT 1994-1916	19940415
CN 1105365	A	19950719	CN 1994-104429	19940415
CN 1046524	B	19991117		
HU 71252	A2	19951128	HU 1994-1080	19940415
LV 10778	B	19960620	LV 1994-73	19940415
IN 177851	A	19970222	IN 1994-MA299	19940415
IL 109321	A1	19980715	IL 1994-109321	19940415
RO 114965	B3	19990930	RO 1994-637	19940415
TW 412537	B	20001121	TW 1994-83103375	19940415
PRIORITY APPLN. INFO.:			US 1993-48688	B2 19930416
			US 1994-213562	A 19940321

OTHER SOURCE(S): MARPAT 125:114389
 GI

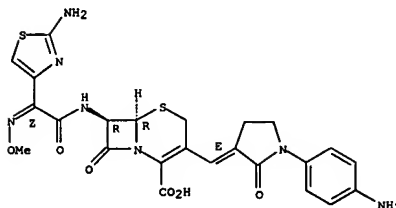


AB The title compds. I [R1 is an acyl group derived from a carboxylic acid, hydrogen, or an amino protecting group; R2 is hydrogen, hydroxy, lower alkyl-Qp -, cycloalkyl, lower alkoxy, lower alkenyl, cycloalkenyl, lower alkynyl, aralkyl-Qp -, aryl-Qp -, aryloxy, aralkoxy or a heterocyclic ring, the lower alkyl, cycloalkyl, lower alkoxy, lower alkenyl, cycloalkenyl, lower alkynyl, aralkyl, aryl, aryloxy, aralkoxy and the heterocyclic ring being unsubstituted or substituted with at least one group selected from carboxy, amino, nitro, oxo, cycloalkyl, cyano, lower alkyl, lower alkoxy, hydroxy, halogen, -CONR4 R5, -N(R5)COOR3, R3 CO-, R5 OCO- or R5 COO- where R4 is hydrogen, lower alkyl, or cycloalkyl; R5 is hydrogen or lower alkyl; R9 is lower alkyl, lower alkenyl or a carboxylic acid protecting group; Q is --CO- or --SO2 -; m is 0 or 1; n is 0, 1 or 2; p is 0 or 1] as well as their pharmaceutically acceptable salts and easily hydrolyzable esters are prepared. Thus, [6R-[3(E), 6a, 7β]-3-[[[(2-oxo-1-phenyl)-3-pyrrolidinylidene)methyl]-7-amino-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid trifluoroacetic acid salt was reacted with 2-(2-aminothiazol-4-yl)-[Z]-2-(methoxymino)acetic acid 2-benzothiazolyl thioester in water-THF containing NaHCO3 at room temperature for 4 h to give 981 the title compound [6R-[3(E), 6a, 7β(Z)]-7-[[[(2-amino-4-thiazolyl)(methoxymino)acetyl]amino]-8-oxo-3-[(2-oxo-1-phenyl)-3-pyrrolidinylidene)methyl]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid monosodium salt. The compds. are useful as oral or parenteral antibiotics against a broad spectrum of organisms. The minimum inhibition concentration of I [R1 = 2-(2-amino-4-thiazolyl)-2-[(carboxymethoxymino)acetyl]amino, R2 = CH2-CF3, n = 1, m = 0] disodium salt (also prepared) against Escherichia coli was 0.0625 mg/L.

IT 161671-95-OP
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USE3 (Uses) (preparation of cephalosporin analogs as antibacterials)

RN 161671-95-0 CAPLUS
 CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[[[(1-(4-aminophenyl)-2-oxo-3-pyrrolidinylidene)methyl]-7-[[[(2-amino-4-thiazolyl)(methoxymino)acetyl]amino]-8-oxo-3-[(2-oxo-1-phenyl)-3-pyrrolidinylidene)methyl]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid monosodium salt, (6R-[3(E), 6a, 7β(Z)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



● Na

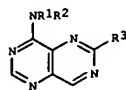
L13 ANSWER 184 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:371898 CAPLUS
DOCUMENT NUMBER: 125:33669
TITLE: Preparation of 4-(phenylamino)pyrimido[5,4-d]pyrimidines as epidermal growth factor receptor antagonists
INVENTOR(S): Himmelsbach, Frank; Von Rueden, Thomas; Dahmann, Georg; Metz, Thomas
PATENT ASSIGNEE(S): Dr. Karl Thomae GmbH, Germany
SOURCE: PCT Int. Appl., 231 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9607657	A1	19960314	WO 1995-EP3482	19950905
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SK, TJ, TM, TT, UA, UG, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 4431867	A1	19960314	DE 1994-4431867	19940907
DE 19503151	A1	19960808	DE 1995-19503151	19950201
DE 19521386	A1	19961219	DE 1995-19521386	19950613
DE 19528672	A1	19970206	DE 1995-19528672	19950804
AU 9535218	A1	19960327	AU 1995-35218	19950905
AU 688972	B2	19960319		
EP 779888	A1	19970625	EP 1995-931988	19950905
EP 779888	B1	19990428		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
SK 284277	B6	20041201	SK 1997-302	19950905
CZ 295781	B6	20051116	CZ 1997-691	19950905
RO 120342	B1	20051230	RO 1997-401	19950905
NO 9701038	A	19970506	NO 1997-1038	19970306
NO 307833	B1	20000605		
BG 62969	B1	20001229	BG 1997-101289	19970306
FI 9700968	A	19970506	FI 1997-968	19970307
FI 112947	B1	20040213		
HK 1000837	A1	20001103	HK 1997-102471	19971217

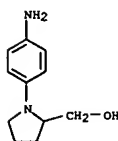
PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 125:33669
GI

L13 ANSWER 184 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB Title compds. [I: R1 = H or alkyl; R2 = (un)substituted Ph; R3 = H, halo, alkyl, alkoxy, etc.] were prepared. Thus, I (R1 = H, R2 = C6H3ClF-3,4, R3 = trans 4-hydroxycyclohexylamino) had IC50 of 0.0008µM against epidermal growth factor-dependent cell growth in vitro.
IT 177908-38-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 4-(phenylamino)pyrimido[5,4-d]pyrimidines as epidermal growth factor receptor antagonists)
RN 177908-38-2 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

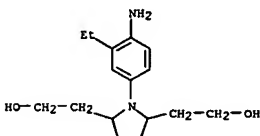


L13 ANSWER 185 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:184384 CAPLUS
DOCUMENT NUMBER: 124:274375
TITLE: Manufacture of tablets for development of silver halide photographic materials
INVENTOR(S): Tsucha, Ichiro; Haraquchi, Takeshi
PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKOXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08015830	A2	19960119	JP 1994-149515	19940630

PRIORITY APPLN. INFO.:

AB The tablets, with ratio of length to thickness 1.5-6.0, containing ≥1 alkali agent and a developing agent are manufactured by pressing at 400-3000 kg/cm². The tablets show good mech. strength and surface smoothness.
IT 167094-96-4
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(manufacture of tablets containing alkali agents with good surface smoothness by pressing for development of silver halide photog. materials)
RN 167094-96-4 CAPLUS
CN 2,5-Pyrrolidinediethanol, 1-(4-amino-3-ethylphenyl)-, sulfate (1:1) (salt)
(9CI) (CA INDEX NAME)
CM 1
CRN 154306-78-2
CMF C16 H26 N2 O2



CM 2
CRN 7664-93-9
CMF H2 O4 S

L13 ANSWER 185 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



ACCESSION NUMBER: 1996:67570 CAPLUS
 DOCUMENT NUMBER: 124:189412
 TITLE: Granular or tabular developer for silver halide photographic material
 INVENTOR(S): Tsucha, Ichiro
 PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07295161	A2	19951110	JP 1994-91987	19940428
PRIORITY APPLN. INFO.:			JP 1994-91987	19940428

AB The granular developer, with a drying loss of 0.5-5.0 weight% at 50°, contains 21 saccharide. The tabular developer is obtained by press-molding the granular developer. The developer may contain a p-phenylenediamine derivative and/or an alkali agent. The developer showed good storage stability.

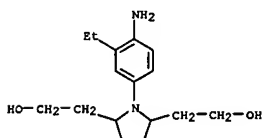
IT 167094-96-4
 RL: TEM (Technical or engineered material use); USES (Uses)
 (granular or tabular developer containing saccharide for silver halide photog. material)

RN 167094-96-4 CAPLUS
 CN 2,5-Pyrrolidinediethanol, 1-(4-amino-3-ethylphenyl)-, sulfate (1:1)
 (salt)
 (9CI) (CA INDEX NAME)

CM 1

CRN 154306-78-2

CMF C16 H26 N2 O2



CM 2

CRN 7664-93-9

CMF H2 O4 S

ACCESSION NUMBER: 1995:998031 CAPLUS
 DOCUMENT NUMBER: 124:131424
 TITLE: Photographic color-developing chemicals in form of granules.
 INVENTOR(S): Deguchi, Takashi
 PATENT ASSIGNEE(S): Konica Corp., Japan
 SOURCE: Eur. Pat. Appl., 38 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 682289	A2	19951115	EP 1995-106913	19950508
EP 682289	A3	19960313		
EP 682289	B1	19990203		
R: DE, FR, GB, NL				
JP 08029924	A2	19960202	JP 1994-146682	19940628
US 5607822	A	19970304	US 1996-642799	19960503
PRIORITY APPLN. INFO.:			JP 1994-95159	A 19940509
			JP 1994-146682	A 19940628
			US 1995-432509	A1 19950501

AB Photog. color-developing chems. in the form of granules for a silver halide color photog. material containing a p-phenylenediamine compound, wherein the color-developing chems. further contain a compound represented by the following formula HON(LA)R (L = alkylene; A = carbonyl, sulfo, phosphono, hydroxy, amino, ammonio, carbamoyl, cyano, sulfamoyl, or a phosphinic acid group; R = H or alkyl), the chems. imparting a pH of 5.0 or less to an aqueous solution in which the chems. are dissolved.

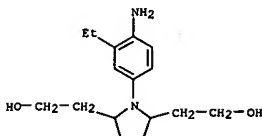
IT 167094-96-4 173307-38-5
 RL: TEM (Technical or engineered material use); USES (Uses)
 (granular color photog. developers containing hydroxylamine derivs.)

RN 167094-96-4 CAPLUS
 CN 2,5-Pyrrolidinediethanol, 1-(4-amino-3-ethylphenyl)-, sulfate (1:1)
 (salt)
 (9CI) (CA INDEX NAME)

CM 1

CRN 154306-78-2

CMF C16 H26 N2 O2



CM 2

CRN 7664-93-9

CMF H2 O4 S

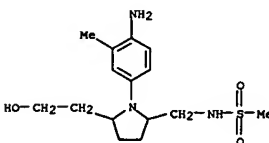


RN 173307-38-5 CAPLUS
 CN Methanesulfonamide, N-[[1-(4-amino-3-methylphenyl)-5-(2-hydroxyethyl)-2-pyrrolidinyl]methyl]-, sulfate (1:1) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 155293-32-6

CMF C15 H25 N3 O3 S



CM 2

CRN 7664-93-9

CMF H2 O4 S



L13 ANSWER 188 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:630422 CAPLUS
 DOCUMENT NUMBER: 123:183310
 TITLE: Solid treatment agents for silver halide photographic materials
 INVENTOR(S): Tsucha, Ichiro; Haraguchi, Takeshi
 PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 34 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07092624	A2	19950407	JP 1994-175653	19940727
PRIORITY APPLN. INFO.:				JP 1994-175653 A 19940727
				JP 1993-186254 19930728

AB The agents contain R1XN(R2)(CHR3)mY1(CHR4)nCO2M1 (R1 = alkyl, alkenyl; R2 = H, alkyl, hydroxyalkyl; R3-4 = H, OH, alkyl, CO2M2; M2 = H, alkali metal; X = CO, SO2; Y = O, S, CONR5; R5 = H, alkyl, hydroxyalkyl; M1 = H, alkali metal). The agents may be for bleaching, bleach-fixing, or developing. The agent showed good storage stability.

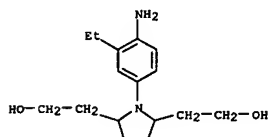
IT 167094-96-4
 RL: TEM (Technical or engineered material use); USES (Uses)
 (developer; solid treatment agents containing acylamino acids with good storage stability for silver halide photog. materials)

RN 167094-96-4 CAPLUS
 CN 2,5-Pyrrolidinediethanol, 1-(4-amino-3-ethylphenyl)-, sulfate (1:1) (salt)

(9CI) (CA INDEX NAME)

CM 1

CRN 154306-78-2
 CMF C16 H26 N2 O2



CM 2

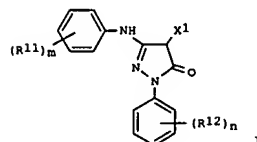
CRN 7664-93-9
 CMF H2 O4 S



L13 ANSWER 189 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:610650 CAPLUS
 DOCUMENT NUMBER: 123:22029
 TITLE: Processing of silver halide color photographic materials with curl-resistance
 INVENTOR(S): Obayashi, Keiji; Taniguchi, Masato; Nakajo, Kyoshi
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 71 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07064258	A2	19950310	JP 1993-230728	19930825
PRIORITY APPLN. INFO.:				JP 1993-230728 19930825

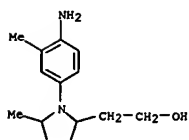
OTHER SOURCE(S): MARPAT 123:22029
 GI



AB The title processing utilizes color developers containing color developing agents with HPLC retention coeffs. of ≤ 19 to develop Ag halide color photog. material in which a support is made of poly(alkylene aromatic dicarboxylate) with Tg 50-200° and heat-treated with a temperature between 40° and Tg. The photog. material may contain magenta coupler, I (R11 = substituent; R12 = electron withdrawing group; m = 1-5; n = 2-5; X1 = H, group capable of leaving upon reaction with oxidized aromatic primary amine color developing agent) in photog. emulsion layers.

IT 163804-65-7
 RL: MQA (Modifier or additive use); USES (Uses)
 (photog. color developers containing)

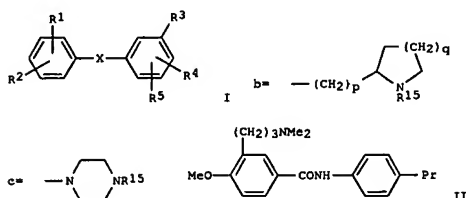
RN 163804-65-7 CAPLUS
 CN 2-Pyrrolidinediethanol, 1-(4-amino-3-methylphenyl)-5-methyl- (9CI) (CA INDEX NAME)



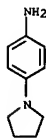
L13 ANSWER 190 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:568352 CAPLUS
 DOCUMENT NUMBER: 122:314282
 TITLE: Preparation of aniline and benzanilide compounds as 5-HT1D antagonists.
 INVENTOR(S): Mitchell, William Leonard; Bradshaw, John; Oxford, Alexander William; Clitherow, John Watson
 PATENT ASSIGNEE(S): Glaxo Group Ltd., UK
 SOURCE: Brit. UK Pat. Appl., 78 pp.
 CODEN: BAXXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2276165	A1	19940921	GB 1993-5523	19930317
PRIORITY APPLN. INFO.: GB 1993-5523 19930317				

OTHER SOURCE(S): MARPAT 122:314282
 GI



AB Title compds. I (R1 = H, C1-6 alkyl, C1-6 alkoxy; R2 = H, halo, C1-6 alkyl, HO-C1-6 alkyl, HO, C1-6 alkylthio, etc.; R3 = R14R13N(CH2)n, b, c wherein R13, R14 = H, C1-6 alkyl, n = 2-4, p, q = 1-3, R15 = R13; R4, R5 = H, halo, HO, C1-6 alkoxy, C1-6 alkyl; X = CONH, NHCO, CH2NH, NHCH2) or a salt thereof, 5-HT1D antagonists useful in treatment of CNS disorders, endocrine disorders and sexual dysfunction (no data), are prepared (E)-3-(2-cyanoethyl)-4-methoxybenzoic acid (preparation given) in THF was treated with Et3N followed by MeSO2Cl and 4-propylbenzylamine to give (E)-3-(2-cyanoethyl)-4-methoxy-N-(4-propylphenyl)benzamide which in dimethylamine/EtOH and DMF was added to PdOC to give title compound II converted to the HCl salt.
 IT 163260-77-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of aniline and benzanilide compds. as 5-HT1D antagonists.)
 RN 163260-77-3 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)-, dihydrochloride (9CI) (CA INDEX NAME)

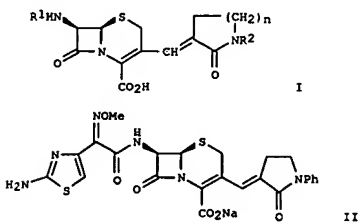


● 2 HCl

L13 ANSWER 191 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:428755 CAPLUS
 DOCUMENT NUMBER: 122:187252
 TITLE: Preparation of (oxopyrrolidinylidenemethyl)cephalosporin derivatives and related compounds as antibacterials.
 INVENTOR(S): Angehrn, Peter; Wei, Chung-Chen
 PATENT ASSIGNEE(S): F. Hoffmann-La Roche AG, Switz.
 SOURCE: Eur. Pat. Appl., 149 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 620225	A1	19941019	EP 1994-104997	19940330
EP 620225	B1	20021113		
R: AT, BE, CH, DE, DK, ES, FR, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 5523400	A	19960604	US 1994-213562	19940321
PRIORITY APPLN. INFO.: US 1993-48688 A 19930416				
US 1994-213562 A 19940321				

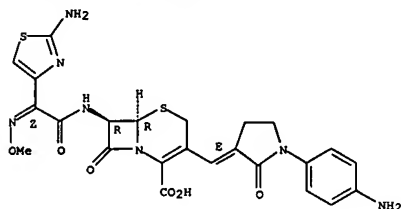
OTHER SOURCE(S): MARPAT 122:187252
 GI



AB Title compds. [I; R1 = acyl derived from a carboxylic acid; R2 = H, OH, (substituted) alkyl, alkylcarbonyl, alkylsulfonyl, cycloalkyl, alkoxy, alkenyl, cycloalkenyl, alkynyl, aryloxy, aralkoxy, heterocyclyl, etc.; n = 0, 1, 2] as well as readily hydrolyzable esters, pharmaceutically acceptable salts, and hydrates thereof, were prepared Thus, [6R-[3(E), 6a, 7B]]-3-[(2-oxo-1-phenyl)-3-pyrrolidinylidenemethyl]-7-amino-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid trifluoroacetic acid salt, 2-(2-aminothiazol-4-yl)-(Z)-2-

L13 ANSWER 191 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
methoxyiminoacetic acid 2-benzothiazolyl ester, and NaHCO₃ were stirred
in THF/H₂O to give 98% title compd. II. Selected I showed min. inhibitory
concn. of 4-8 mg/L against *Pseudomonas aeruginosa*.
IT 161671-95-09
RL: BAC (Biological activity or effector, except adverse); BSU
(Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (oxopyrrolidinylidenemethyl)cephalosporin deriva. and
related compds. as antibacterials)
RN 161671-95-0 CAPLUS
CN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
3-[[1-(4-aminophenyl)-2-oxo-3-pyrrolidinylidene]methyl]-7-[[{(2-amino-4-
thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-, monosodium salt,
[6R-{3(E),6a,7β(Z)}]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

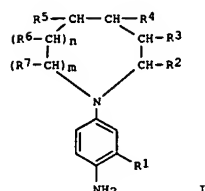


● Na

L13 ANSWER 192 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:389595 CAPLUS
DOCUMENT NUMBER: 122:147016
TITLE: Method of producing color photographic images
INVENTOR(S): Hagemann, Joerg
PATENT ASSIGNEE(S): Agfa-Gevaert A.-G., Germany
SOURCE: Ger. Offen., 41 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4241532	A1	19940616	DE 1992-4241532	19921210
DE 1992-4241532				

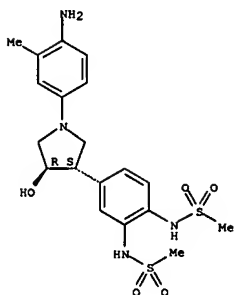
PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 122:147016
GI



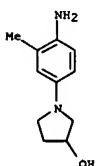
AB The title method comprises use of a color developer from I or its salt
[R1 = alkyl, alkoxy; R2-R7 = H, OH, CO₂H, SO₃H, alkyl, aryl, acyl, alkoxy
aryloxy, acyloxy, alkylthio, sulfinyl, sulfonyl, sulfamoyl, acylamino,
sulfonamido; ≥1 of R2-R7 is H; m, n = 0, 1]. The method provides
improved gradation and maximum d.
IT 161282-05-9
RL: MOA (Modifier or additive use); USES (Uses)
(photo. color developer)
RN 161282-05-9 CAPLUS
CN Methanesulfonamide, N,N'-[4-[1-(4-amino-3-methylphenyl)-4-hydroxy-3-
pyrrolidinyl]-1,2-phenylene]bis-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

L13 ANSWER 192 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



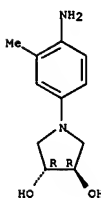
IT 143525-67-1P 161282-01-5P
RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP
(Preparation); USES (Uses)
(photo. color developer)
RN 143525-67-1 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



RN 161282-01-5 CAPLUS
CN 3,4-Pyrrolidinediol, 1-(4-amino-3-methylphenyl)-, (3R-trans)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

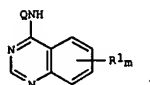
L13 ANSWER 192 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 193 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:23238 CAPLUS
 DOCUMENT NUMBER: 122:31545
 TITLE: Preparation of aminoquinazolines useful in the treatment of cancer
 INVENTOR(S): Barker, Andrew John; Brown, Dearg Sutherland
 PATENT ASSIGNEE(S): Zeneca, UK
 SOURCE: Eur. Pat. Appl., 39 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

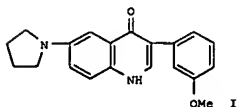
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 602851	A1	19940622	EP 1993-309680	19931203
EP 602851	B1	19961009		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,				
SE				
AU 9350728	A1	19940623	AU 1993-50728	19931116
AU 664496	B2	19951116		
ZA 9308594	A	19940610	ZA 1993-8594	19931117
CA 2103383	AA	19940611	CA 1993-2103383	19931118
CA 2103383	C	20050125		
IL 107678	A1	19990312	IL 1993-107678	19931119
HU 65622	A2	19940728	HU 1993-3328	19931124
FI 9305431	A	19940611	FI 1993-5431	19931203
AT 143956	E	19961015	AT 1993-309680	19931203
ES 2093367	T3	19961216	ES 1993-309680	19931203
CZ 283612	B6	19980513	CZ 1993-2651	19931206
NO 9304504	A	19940613	NO 1993-4504	19931209
JP 06336481	A2	19941206	JP 1993-309184	19931209
JP 3330706	B2	20020930		
CN 1094043	A	19941026	CN 1993-120872	19931210
US 5580870	A	19961203	US 1993-164725	19931210
PRIORITY APPLN. INFO.:				A 19921210
				GB 1993-10248 A 19930518

OTHER SOURCE(S): MARPAT 122:31545
 GI



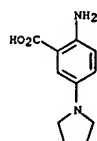
AB The title compds. [I; Q = 9- or 10-membered bicyclic heterocyclic moiety containing 1-2 N atoms; R1 = OH, NH2, ureido, hydroxyamino, trifluoromethoxy, (un)substituted C1-4 alkyl, C1-4 alkoxy, pyrrolidin-1-yl, piperidino, etc.; m = 1-3], useful in the treatment of cancer (no data), are prepared and I-containing formulations presented. Thus, 4-chloro-6,7-dimethoxyquinazoline was reacted with 5-aminoquinoline, producing 6,7-dimethoxy-4-(5-quinolylamino)quinazoline, m.p. > 240°, in 35%

L13 ANSWER 194 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1994:655614 CAPLUS
 DOCUMENT NUMBER: 121:255614
 TITLE: Antitumor Agents 155. Synthesis and Biological Evaluation of 3',6,7-Substituted
 2-Phenyl-4-quinolones
 AUTHOR(S): as Antimicrotubule Agents
 Li, Leping; Wang, Hui-Kang; Kuo, Sheng-Chu; Wu, Tian-Shung; Mauger, Anthony; Lin, Chii M.; Hamel, Ernest; Lee, Kuo-Hsiung
 CORPORATE SOURCE: School of Pharmacy, University of North Carolina, Chapel Hill, NC, 27599, USA
 SOURCE: Journal of Medicinal Chemistry (1994), 37(20), 3400-7
 CODEN: JMCMAR; ISSN: 0022-2623
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

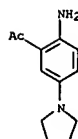


AB A series of 3',6,7-substituted 2-phenyl-4-quinolones were designed and synthesized as antimitotic antitumor agents. All compds. showed cytotoxic effects (log GI50 ≤ -4.0; log drug molar concentration required to cause 50% inhibition) against the growth of a variety of human tumor cell lines, including those derived from solid tumors such as non-small cell lung, colon, central nervous system, ovary, prostate, and breast cancers, when evaluated in the National Cancer Institute's 60 human tumor cell line in vitro screen. The most potent compound (I) demonstrated strong cytotoxic effects with GI50 values in the nanomolar or subnanomolar range in almost all the tumor cell lines. Compound I was also a potent inhibitor of tubulin polymerization and radiolabeled colchicine binding to tubulin, with activity comparable to those of the potent antimitotic natural products colchicine, podophyllotoxin, and combretastatin A-4.
 IT 56915-84-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation and antimicrotubule activity of phenylquinolones)
 RN 56915-84-5 CAPLUS
 CN Ethanone, 1-[2-amino-5-(1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 193 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 yield.
 IT 159526-21-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, in preparation of aminoquinazoline anticancer agents)
 RN 159526-21-3 CAPLUS
 CN Benzoic acid, 2-amino-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 194 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 195 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:545165 CAPLUS
DOCUMENT NUMBER: 121:145165
TITLE: Processing of silver halide color photographic material
INVENTOR(S): Obayashi, Keiji; Taniguchi, Masato
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 125 pp.
CODEN: JKKKAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05241300	A2	19930921	JP 1992-75731	19920228
PRIORITY APPLN. INFO.:			JP 1992-75731	19920228

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A color photog. material with ≥ 2 Ag halide emulsion layers and containing compds. such as (I) and (II) is processed with a color developer solution containing an aromatic amine-type color developer such as (III). The title processing enables rapid processing by shortening the color development time, and gives images with superior color reproducibility, sharpness, and image stability.

IT 143647-36-3 155293-38-2 156681-58-2

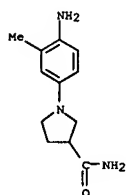
156681-59-3 156681-60-6

RL: USES (Uses)

(color photog. developing agent)

RN 143647-36-3 CAPLUS

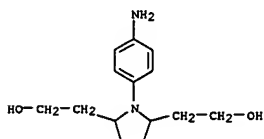
CN 3-Pyrrolidinedecarboxamide, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



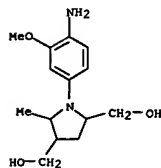
RN 155293-38-2 CAPLUS

CN 2,4-Pyrrolidinedimethanol, 1-(4-amino-3-methoxyphenyl)-5-methyl- (9CI)

L13 ANSWER 195 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

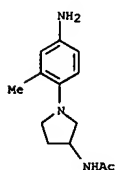


L13 ANSWER 195 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(CA INDEX NAME)



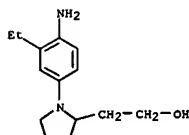
RN 156681-58-2 CAPLUS

CN Acetamide, N-[1-(4-amino-2-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



RN 156681-59-3 CAPLUS

CN 2-Pyrrolidineethanol, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)



RN 156681-60-6 CAPLUS

CN 2,5-Pyrrolidinediethanol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 196 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:521601 CAPLUS

DOCUMENT NUMBER: 121:121601

TITLE: Process for forming color image
INVENTOR(S): Ohki, Nobutaka; Nakamura, Koichi; Taniguchi, Masato
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd. Japan
SOURCE: U.S., 65 pp. Cont.-in-part of U.S. Ser. No. 691,437, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5278034	A	19940111	US 1992-989556	19921211
JP 04011255	A2	19920116	JP 1990-114603	19900427
JP 2726950	B2	19980311		
JP 05188550	A2	19930730	JP 1992-4088	19920113
PRIORITY APPLN. INFO.:			JP 1990-114603	A 19900427
			US 1991-691437	B2 19910425
			JP 1992-4088	A 19920113

OTHER SOURCE(S): MARPAT 121:121601

AB A rapid process for forming a color image comprises the step of developing an imagewise exposed silver halide color photog. material with a color developing composition containing a N-(4-aminophenyl)pyrrolidine derivative to produce color images of excellent hue.

IT 154306-78-2 155293-28-0 155293-30-4

155293-31-5 155293-32-6 155293-33-7

155293-36-0 155293-38-2 156938-20-4

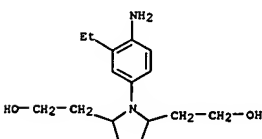
156938-21-5 156938-23-7 156938-24-8

RL: USES (Uses)

(color photog. developing compns. containing)

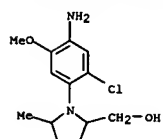
RN 154306-78-2 CAPLUS

CN 2,5-Pyrrolidinediethanol, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)

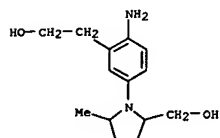


RN 155293-28-0 CAPLUS

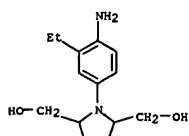
CN 2-Pyrrolidinedimethanol, 1-(4-amino-2-chloro-5-methoxyphenyl)-5-methyl- (9CI) (CA INDEX NAME)



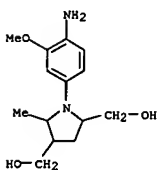
RN 155293-30-4 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-amino-3-(2-hydroxyethyl)phenyl)-5-methyl- (9CI) (CA INDEX NAME)



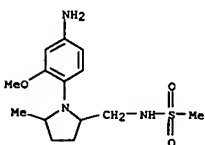
RN 155293-31-5 CAPLUS
CN 2,5-Pyrrolidinedimethanol, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)



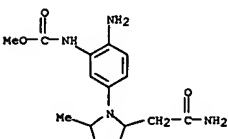
RN 155293-32-6 CAPLUS
CN Methanesulfonamide, N-[[1-(4-amino-3-methylphenyl)-5-(2-hydroxyethyl)-2-pyrrolidinyl]methyl]- (9CI) (CA INDEX NAME)



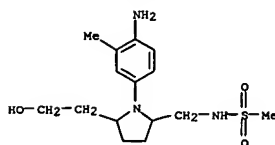
RN 156938-20-4 CAPLUS
CN Methanesulfonamide, N-[[1-(4-amino-2-methoxyphenyl)-5-methyl-2-pyrrolidinyl]methyl]- (9CI) (CA INDEX NAME)



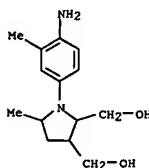
RN 156938-21-5 CAPLUS
CN Carbamic acid, [2-amino-5-[2-(2-amino-2-oxoethyl)-5-methyl-1-pyrrolidinyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



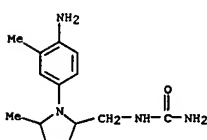
RN 156938-23-7 CAPLUS
CN Acetamide, N-[[1-(4-amino-3-((dimethylamino)carbonyl)amino)phenyl]-5-methyl-2-pyrrolidinyl]methyl]- (9CI) (CA INDEX NAME)



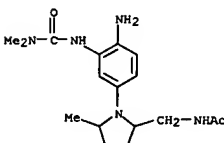
RN 155293-33-7 CAPLUS
CN 2,3-Pyrrolidinedimethanol, 1-(4-amino-3-methylphenyl)-5-methyl- (9CI) (CA INDEX NAME)



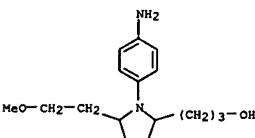
RN 155293-36-0 CAPLUS
CN Urea, [[1-(4-amino-3-methylphenyl)-5-methyl-2-pyrrolidinyl]methyl]- (9CI) (CA INDEX NAME)



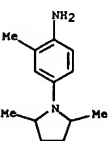
RN 155293-38-2 CAPLUS
CN 2,4-Pyrrolidinedimethanol, 1-(4-amino-3-methoxyphenyl)-5-methyl- (9CI) (CA INDEX NAME)



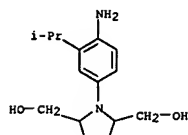
RN 156938-24-8 CAPLUS
CN 2-Pyrrolidinepropanol, 1-(4-aminophenyl)-5-(2-methoxyethyl)- (9CI) (CA INDEX NAME)



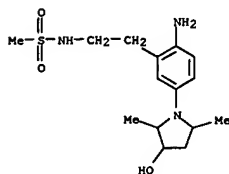
IT 155085-72-6P 155293-29-1P 156938-22-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, in color photog. developing compns.)
RN 155085-72-6 CAPLUS
CN Benzenamine, 4-(2,5-dimethyl-1-pyrrolidinyl)-2-methyl- (9CI) (CA INDEX NAME)



RN 155293-29-1 CAPLUS
CN 2,5-Pyrrolidinedimethanol, 1-(4-amino-3-(1-methylethyl)phenyl)- (9CI) (CA INDEX NAME)



RN 156938-22-6 CAPLUS
CN Methanesulfonamide, N-(2-((2-amino-5-(3-hydroxy-2,5-dimethyl-1-pyrrolidinyl)phenyl)ethyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 197 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1994:521572 CAPLUS
DOCUMENT NUMBER: 121:121572
TITLE: Method for processing silver halide color photographic materials with little poor desilverization using automatic developing apparatuses
Fujimoto, Hiroshi; Taniguchi, Masato
Fuji Photo Film Co Ltd, Japan
Jpn. Kokai Tokkyo Koho, 45 pp.
CODEN: JKKOAF

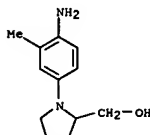
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05197107	A2	19930806	JP 1992-29075	19920121
PRIORITY APPLN. INFO.:			JP 1992-29075	19920121

AB The title method, using a Ag halide color photog. material having 21 Ag halide emulsion layer containing AgI 20.5 mol%, is characterized in that a color developer contains an aromatic primary amine color developing agent and a hydroxyamine derivative, the concentration of sulfite is 50.25 mmol/L, the replenishing amount of the developer per 1 m2 of the photog. material is 60-300 mL, the concentration of a bleaching agent in a processing solution used after color development is 3-120 mmol/L, and the replenishing amount of the processing solution is 0.01-5 times of a carry-over amount by the photog. material.

IT 143525-58-0P 143647-37-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, color developing agent from)

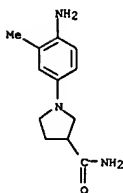
RN 143525-58-0 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



RN 143647-37-4 CAPLUS
CN 3-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)-, sulfate (2:1) (9CI)
(CA INDEX NAME)

CM 1

CRN 143647-36-3

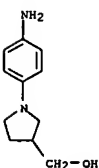


CM 2

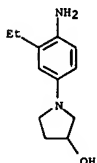
CRN 7664-93-9
CMF H2 O4 S



IT 143525-59-1 143525-63-7
RL: USE5 (Uses)
(processing of silver halide color photog. material with)
RN 143525-59-1 CAPLUS
CN 3-Pyrrolidinemethanol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



RN 143525-63-7 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)

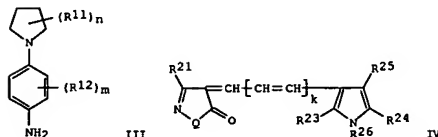
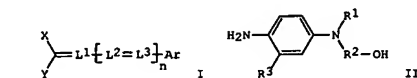


L13 ANSWER 198 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1994:495812 CAPLUS
 DOCUMENT NUMBER: 121:95812
 TITLE: Processing of silver halide color photographic material
 INVENTOR(S): Obayashi, Keiji; Tamoto, Koji; Taniguchi, Masato
 PATENT ASSIGNEE(S): Fujii Photo Film Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 66 pp.
 CODEN: JKKOAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05241299	A2	19930921	JP 1992-73029	19920226

PRIORITY APPLN. INFO.: JP 1992-73029 19920226

GI



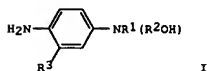
AB The title processing involves development of an imagewise exposed title material containing 21 Ag halide emulsion layers and a layer containing an oil-soluble dye (I) [X, Y = electron withdrawing group; X-Y bond may be formed to become an acid nucleus; Ar = Ph, heterocyclyl; L1-3 = methine; n = 0-2] with a color developer solution containing II (R1 = C1-6 alkyl, C3-6 hydroxyalkyl; R2 = C3-6 alkylene, C3-6 hydroxyalkylene; R3 = H, C1-4 alkyl, C1-4 alkoxy) or III (R11, R12 = substituent; R12 may form a ring; n = 0-8; m = 0-4). The oil-soluble dye is IV (R21 = H, alkyl, alkenyl, aryl, heterocyclyl, ureido, sulfonamide, sulfamoyl, sulfonyl, sulfinyl, alkylthio, arylthio, oxycarbonyl, acyl, carbamoyl, CN, alkoxy, aryloxy, amino, amido; Q = O, NR22; R22 = H, alkyl, aryl, heterocyclyl; R23-25 = H, alkyl, aryl; R24-R25 may form a 6-membered ring; R26 = H, alkyl, aryl, NH2; k = 0, 1). The material contains A(L1)VB(L2)W(DI) (A = coupler residue releasing (L1)VB(L2)W(DI) upon reaction with oxidized developer;

L13 ANSWER 199 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1994:446477 CAPLUS
 DOCUMENT NUMBER: 121:46477
 TITLE: processing method for silver halide photographic materials
 INVENTOR(S): Fujita, Yoshihiro; Taniguchi, Masato
 PATENT ASSIGNEE(S): Fujii Photo Film Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.
 CODEN: JKKOAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05188549	A2	19930730	JP 1992-24381	19920116

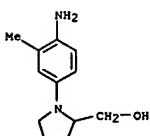
PRIORITY APPLN. INFO.: JP 1992-24381 19920116

OTHER SOURCE(S): MARPAT 121:46477
 GI



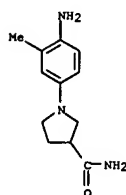
AB The title method for providing processed photog. materials with reduced color stains and less color formation upon storage comprises developing a silver halide photog. material containing 21.2 g/m2 silver with a dried coated layer thickness 516 µm in a color developing solution containing a p-phenylenediamine-type developer represented by the formula I (R1 = C1-6 alkyl, C3-6 hydroxyalkyl; R2 = C2-6 alkylene, C3-6 hydroxyalkylene; R3 = C1-4 alkyl or alkoxy) and processing for a total processing time of 53 min after color development.

IT 143525-58-0 143647-36-3
 RL: USES (Uses)
 (color photog. developers containing, for rapid processing)
 RN 143525-58-0 CAPLUS
 CN 2-Pyrrolidinemethanol, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)

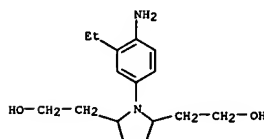


RN 143647-36-3 CAPLUS
 CN 3-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)

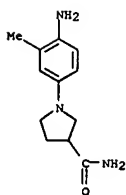
L13 ANSWER 198 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 L1 = connecting group leaving after sepn. from A; B = redox group releasing (L2)w(DI); L2 = connecting group leaving from (DI) after sepn. from B; DI = development inhibitor; v, w = 0-2). The process provides durable color images.
 IT 143647-36-3 154306-78-2
 RL: USES (Uses)
 (color photog. developer containing)
 RN 143647-36-3 CAPLUS
 CN 3-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



RN 154306-78-2 CAPLUS
 CN 2,5-Pyrrolidinediethanol, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 199 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



=> d ibib abs hitstr 1-99

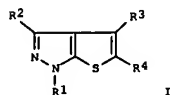
L13 ANSWER 1 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:32180 CAPLUS
DOCUMENT NUMBER: 144:128971
TITLE: Preparation of thienopyrazole derivatives as PDE7 inhibitors
INVENTOR(S): Inoue, Hidekazu; Murafuji, Hidenobu; Hayashi, Yasuhiro
PATENT ASSIGNEE(S): Daiichi Sankyo Pharma Co., Ltd., Japan
SOURCE: PCT Int. Appl., 329 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006004040	A1	20060112	WO 2005-JP12208	20050701
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: JP 2004-195836 A 20040701

GI



AB The title compds. I (R1 = (un)substituted alkyl, (un)substituted cycloalkyl, (un)substituted heterocycloalkyl; R2 = H, (un)substituted alkyl; R3 = H, (un)substituted alkyl, halo; R4 = (un)substituted aryl, (un)substituted heteroaryl, CO2R7, etc.; R7 = H, (un)substituted alkyl) are prepared I have selective inhibitory activity against PDE7 and thus heighten the intracellular cAMP level to inhibit the activation of T cells. I are hence useful in the prevention and treatment of various allergic diseases and inflammatory and immunol. diseases. Thus, N-benzyl-1-cyclohexyl-3-methyl-1H-thieno[2,3-c]pyrazole-5-carboxamide was prepared in a multistep process from cyclohexylhydrazine HCl salt and Me acetacetate. Compds. of this invention showed IC50 values of 0.004 µM to 0.009 µM against phosphodiesterase 7.

IT 757933-31-6P 873537-42-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of thienopyrazole derivs. as PDE7 inhibitors)

L13 ANSWER 2 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:9696 CAPLUS
DOCUMENT NUMBER: 144:93806
TITLE: Dyeing composition comprising elastomeric film-forming polymers and oxidation dye precursors
INVENTOR(S): Rollat-Corvol, Isabelle; Gawtre, Jonathan
PATENT ASSIGNEE(S): Fr.
SOURCE: U.S. Pat. Appl. Publ., 9 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

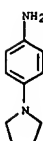
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006000033	A1	20060105	US 2005-171224	20050701
FR 2872426	A1	20060106	FR 2004-51389	20040701
EP 1621185	A1	20060201	EP 2005-291420	20050630
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				

PRIORITY APPLN. INFO.: FR 2004-51389 A 20040701
US 2004-616225P P 20041007

AB The present disclosure relates to a dyeing composition comprising, in a medium suitable for dyeing, at least one dye precursor and at least one elastomeric film-forming polymer wherein the film obtained by drying this polymer, at ambient temperature and at a relative humidity of 55±5%, has properties, an elongation at break (eb) of ≥ 800 %, an instantaneous recovery (R1) ≥ 75 %, after an elongation of 150%, and a recovery (R300) at 300 s of > 80 %. This composition makes it possible, for example, to obtain strong colorations that withstand outside agents. For example, a hair dye was prepared containing N-methyldiethanolamine-polytetramethylene oxide-isophorone diisocyanate copolymer 2, p-aminophenol 0.4, 2-methyl-5-aminophenol 0.5, and a dyeing medium (formulation given) to 100 %.

IT 2632-65-7 503457-32-7
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyes comprising elastomeric film-forming polymers and oxidation dye precursors)

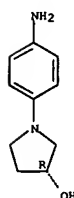
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 1 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 757933-31-6 CAPLUS
CN 3-Pyrrolidinol, 1-(4-aminophenyl)-, (3R)- (9CI) (CA INDEX NAME)

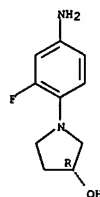
Absolute stereochemistry.



RN 873537-42-9 CAPLUS

CN 3-Pyrrolidinol, 1-(4-amino-2-fluorophenyl)-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L13 ANSWER 2 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 503457-32-7 CAPLUS
CN 3-Pyrrolidinol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 3 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:1223738 CAPLUS
 DOCUMENT NUMBER: 143:477842
 TITLE: Substituted thiophene carboxamides, process for their preparation and their use as antithrombotics and factor Xa inhibitors
 INVENTOR(S): Pfau, Roland; Priepke, Henning; Gerlach, Kai; Wienen, Wolfgang; Schuler-Metz, Annette; Nar, Herbert; Handschuh, Sandra
 PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany
 SOURCE: U.S. Pat. Appl. Publ., 62 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

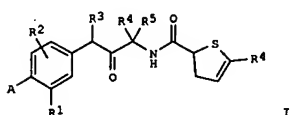
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005256107	A1	20051117	US 2005-125493	20050510
WO 2005111013	A1	20051124	WO 2005-EP4974	20050507

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: EP 2004-11387 A 20040513

OTHER SOURCE(S): MARPAT 143:477842
 GI



AB The present invention relates to substituted thiophene-2-carboxylic acid amides of general formula I, (wherein R1 = H, F, Cl, Br, or I, (un)substituted C1-3-alkyl or C1-3-alkoxy; R2 = H, halogen, or C1-3-alkyl; R3 = H or C1-3-alkyl; R4 and R5 = H, C2-6-alkenyl, or C2-6-alkynyl group, (un)substituted C1-6-alkyl, CO, aminocarbonyl, C1-5-alkylaminocarbonyl, C3-5-cycloalkylaminocarbonyl, C1-5-alkoxyaminocarbonyl, C4-6-cycloalkylaminocarbonyl, (un)substituted Ph, heteroaryl, cycloalkyl, cycloalkyleneimino; R4 and R5 together with C form an (un)substituted C3-8-cycloalkyl or C3-8-cycloalkenyl group that may form a bridged group; R6 = H, F, Cl, Br, I, nitrile, C1-3-alkyl, or C1-3-alkoxy group,

L13 ANSWER 4 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:115540 CAPLUS
 DOCUMENT NUMBER: 143:405903
 TITLE: Preparation of benzoindiaminotiazoles as selective Cdk4 inhibitors useful against cancer
 INVENTOR(S): Ding, Qingjie; Jiang, Nan; Kim, Kyungjin
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S. Pat. Appl. Publ., 84 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005239843	A1	20051027	US 2005-98563	20050404
WO 2005103034	A1	20051103	WO 2005-EP3734	20050408

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2004-563712P P 20040420
 OTHER SOURCE(S): MARPAT 143:405903
 GI

L13 ANSWER 3 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 optionally substituted with F; A = substituted heterocycle), the tautomers, the enantiomers, the diastereomers, the mixts. thereof and the salts thereof, particularly the physiologically acceptable salts thereof with inorg. or org. acids or bases, which have valuable properties. I have an antithrombotic activity and factor Xa-inhibiting activity. The present application thus relates to the new compds. of the above general formula I, the prepn. thereof, the pharmaceutical compns. contg. the pharmacol. effective compds., the prepn. and use thereof. For example, II was prepd.

from 2-[(5-chlorothiophene-2-carbonyl)amino]propionic acid and 3-bromo-4-(4-methylpiperazin-1-yl)aniline with TBTU and TEA in DMF. All the compds. tested had an IC50 of < 100 µmol/L against human factor Xa. 433934-10-2P, 4-(2,5-Dimethylpyrrolidin-1-yl)aniline

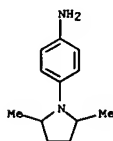
IT RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation): RACT (Reactant or reagent)

(substituted thiophene carboxamides, process for their preparation and their

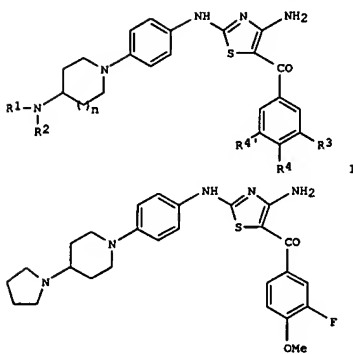
use as antithrombotics and factor Xa inhibitors)

RN 433934-10-2 CAPLUS

CN Benzenamine, 4-(2,5-dimethyl-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 4 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

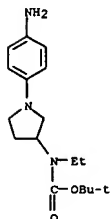


AB Novel diaminotiazoles (shown as I; variables defined below; e.g. [4-amino-2-[(4-{4-(pyrrolidin-1-yl)piperidin-1-yl}phenyl)amino]thiazol-5-yl](3-fluoro-4-methoxyphenyl)methanone (shown as II)) are discussed. These compds. selectively inhibit the activity of Cdk4 and are thus useful

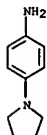
in the treatment or control of cancer, in particular, the treatment or control of solid tumors. This invention also provides pharmaceutical compns. containing such compds. and methods of treating or controlling cancer,

most particularly, the treatment or control of breast, lung, colon, and prostate tumors. For I: n = 0-1; R1 and R2 = H, lower alkyl, CO2R5, SO2R6, and COR6; or alternatively, R1 and R2 can form a ring having 5-7 ring atoms, said ring comprising C atoms, said C atoms optionally being replaced by one or two heteroatoms, and said ring atoms optionally being substituted by OR6; R3 = H, lower alkyl, O-lower alkyl, halogen, OH, CN, NO2, and COOH; R4 = H, lower alkyl, cycloalkyl, O-lower alkyl, halogen, NO2, S-lower alkyl, CF3, NR5R6, CONR7R8, COR6, OH, and CN; or alternatively, R3 and R4, together with the two C atoms and bond between them from the benzene ring to which R3 and R4 are attached, can form a ring having 5-7 ring atoms, said 5-7 atom ring comprising C atoms, said C atoms optionally being replaced by one or two heteroatoms, and said ring atoms optionally being substituted by C1-C4 alkyl and CO2R6. R4' is H or halogen; R5 and R6 = H, lower alkyl, cycloalkyl, heterocycle, aryl, and aryl substituted by lower alkoxy, halogen, or CN; R7 and R8 = H, lower alkyl, lower alkyl substituted by OR5, and NR5R6; or alternatively, the group NR7R8 can form a ring having 5-7 ring atoms, said ring atoms comprising in addition to the N to which R7 and R8 are bonded, C ring atoms, said C ring atoms optionally being replaced by one or two heteroatoms, and said ring atoms being (un)substituted by C1-C4 alkyl, COR6, CONR5R6, or

L13 ANSWER 4 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CO2R6. Although the methods of prepn. are not claimed, .apprx.100
 example
 prepn. of I are included. For example, II was prepd. (43 % yield) from
 resin-bound thiourea -CH₂SC(=NH)NHC(=S)NR (R = 4-(4-(pyrrolidin-1-
 yl)piperidin-1-yl)phenyl) (derived from 1-(4-isothiocyanatophenyl)-4-
 (pyrrolidin-1-yl)piperidine for which a prepn. is described) and
 2-bromo-3'-fluoro-4'-methoxyacetophenone in the presence of resin-bound
 trisamine. IC50 values for inhibition of Cdk4, Cdk2, and Cdk1 are
 tabulated for .apprx.110 examples of I.
 IT 067292-58-8P, [1-(4-Aminophenyl)pyrrolidin-3-yl](ethyl)carbamic
 acid tert-butyl ester
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of benzoyldiaminotiazoles as selective Cdk4 inhibitors
 useful
 against cancer)
 RN 867292-58-8 CAPLUS
 CN Carbamic acid, [1-(4-aminophenyl)-3-pyrrolidinyl]ethyl-,
 1,1-dimethylethyl
 ester (9CI) (CA INDEX NAME)



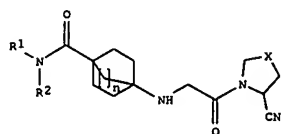
L13 ANSWER 5 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 IT 2632-65-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of pyrrolidine compds. having bicyclic amide moiety as
 DPP-IV
 inhibitors for the treatment of diabetes)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 5 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:902853 CAPLUS
 DOCUMENT NUMBER: 143:248276
 TITLE: Preparation of pyrrolidine compounds having bicyclic
 amide moiety as DPP-IV inhibitors
 INVENTOR(S): Fukuda, Yasumichi; Asahina, Yoshikazu; Katayama,
 Satoru; Shibue, Taku; Murakami, Koji; Ide, Tomohiro
 Kyorin Pharmaceutical Co., Ltd., Japan
 PATENT ASSIGNEE(S): PCT Int. Appl., 198 pp.
 SOURCE: CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

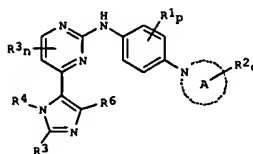
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005077900	A1	20050825	WO 2005-JP2389	20050217
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			JP 2004-41407	A 20040218
OTHER SOURCE(S):			MARPAT 143:248276	
GI				



AB Title compds. I (R1, R2 = H, (un)substituted alkyl, etc.; X = CH2, etc.;
 n
 = 1-3) were prepared. For example, N-alkylation of 4-
 aminobicyclo[2.2.2]octane-1-carboxamide, e.g., prepared from
 bicyclo[2.2.2]octane-1,4-dicarboxylic acid monomethyl ester in 4 steps,
 with (2S,4S)-1-(2-bromoacetyl)-4-fluoropyrrolidine-2-carbonitrile
 afforded
 (2S,4S)-1-[[4-(4-carbamoylbicyclo[2.2.2]oct-1-yl)amino]acetyl]-4-
 fluoropyrrolidine-2-carbonitrile (II). In DPP-IV (dipeptidyl peptidase
 IV) inhibition assays (in vitro), compound II exhibited the IC50 value of
 0.89 nmol/mL. Compds. I are claimed useful for the treatment of
 diabetes.

L13 ANSWER 6 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:823693 CAPLUS
 DOCUMENT NUMBER: 143:229875
 TITLE: Preparation of 4-(imidazol-5-yl)-2-anilinopyrimidines
 as agents for the inhibition of cell proliferation
 INVENTOR(S): Andrews, David Michael; Finlay, Maurice Raymond
 Verschoyle; Green, Clive
 PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
 SOURCE: PCT Int. Appl., 134 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

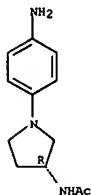
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005075461	A1	20050818	WO 2005-GB303	20050131
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			GB 2004-2277	A 20040203
			GB 2004-11998	A 20040528
OTHER SOURCE(S):			MARPAT 143:229875	
GI				



AB Title compds. I [A = N-linked 4-7 membered saturated ring which; R1 =
 halo,
 NO2, CN, OH, NH2, etc.; p = 0-4; R2 = halo, NO2, CN, OH, etc.; q = 0-2;
 R3
 = halo, NO2, CN, etc.; n = 0-2; R4 = H, alk(en/yn)yl, carbocyclyl, etc.;
 R5-6 = H, halo, NO2, etc.] are prepared. For instance, 2-[4-(4-
 (methanesulfonyl)piperazin-1-yl)anilino]-4-(1-isopropyl-2-methyl-1H-
 imidazol-5-yl)pyrimidine is prepared by the coupling of prior art

L13 ANSWER 6 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
intermediates 2-Amino-4-(1-isopropyl-2-methyl-1H-imidazol-5-yl)pyrimidine
and 1-bromo-4-(4-(methanesulfonyl)piperazinyl)benzene. Example compds.
exhibit IC50 in the range of 250 µM to 1 nM for Cdk2 kinase. 1 are
useful as antiproliferative agents.
IT 862686-27-0P 862686-28-0P 862686-34-8P
862686-38-2P 862686-41-7P 862686-44-0P
862686-49-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of 4-(imidazol-5-yl)-2-anilinopyrimidines as agents for
inhibition of cyclin dependent kinase and cellular proliferation)
RN 862686-27-9 CAPLUS
CN Acetamide, N-[(3R)-1-(4-aminophenyl)-3-pyrrolidinyl]-, monohydrochloride
(9CI) (CA INDEX NAME)

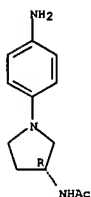
Absolute stereochemistry.



● HCl

RN 862686-28-0 CAPLUS
CN Acetamide, N-[(3R)-1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

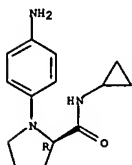
Absolute stereochemistry.



RN 862686-34-8 CAPLUS

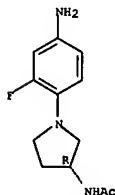
L13 ANSWER 6 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RN 862686-44-0 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-N-cyclopropyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 862686-49-5 CAPLUS
CN Acetamide, N-[(3R)-1-(4-amino-2-fluorophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

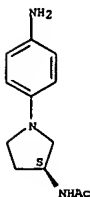
Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

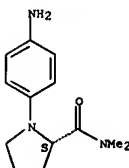
L13 ANSWER 6 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN Acetamide, N-[(3S)-1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



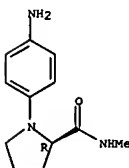
RN 862686-38-2 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-N,N-dimethyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 862686-41-7 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-N-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

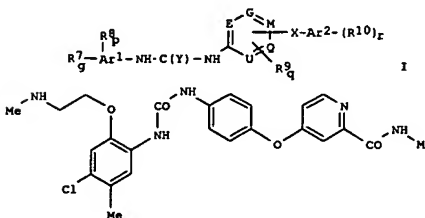


L13 ANSWER 7 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:823661 CAPLUS
DOCUMENT NUMBER: 143:229726
TITLE: Preparation of 1,3-diarylureas as inhibitors of raf and other kinases useful against cancer and other diseases
INVENTOR(S): Buchstaller, Hans-Peter; Burgdorf, Lars; Stieber, Frank; Amendt, Christiane; Grell, Matthias; Sirrenberg, Christian; Zenke, Frank
PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
SOURCE: PCT Int. Appl., 264 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005075425	A2	20050818	WO 2005-EF387	20050117
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPL. INFO.: EP 2004-2092 A 20040130

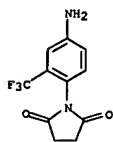
GI



I

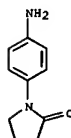
AB The present invention relates to bisarylurea derivs. (shown as I; variables defined below; e.g. 4-[4-[3-[4-chloro-5-methyl-2-(2-methylaminoethoxy)phenyl]ureido]phenoxy]pyridine-2-carboxylic acid methylamide (shown as II)), their use as inhibitors of raf-kinase (no

L13 ANSWER 7 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 data) and for the manuf. of a pharmaceutical compn. and a method of
 treatment, comprising administering said pharmaceutical compn. to a
 patient. Methods of prepn. are claimed and >100 example prepn. are
 included. For example,
 1-[2-[2-(tert-butoxycarbonyl)(methylamino)ethoxy
]-5-(trifluoromethyl)phenyl]-3-[4-[[2-(methoxycarbonyl)pyridin-4-
 yloxy]phenyl]urea was prep. (87 %) by reacting tert-Bu
 [2-(2-amino-4-(trifluoromethyl)phenoxy)ethyl](methyl)carbamate (prepn.
 given) with p-nitrophenyl chloroformate followed by N-methyl-4-(4-
 aminophenoxy)pyridine-2-carboxamide (prepn. given) and DIPEA;
 deprotection
 gave 86 %
 1-[2-[2-(methylamino)ethoxy]-5-(trifluoromethyl)phenyl]-3-[4-[[2-
 (methoxycarbonyl)pyridin-4-yl]oxy]phenyl]urea. For I: Ar1, Ar2 = arom.
 hydrocarbons contg. 6 to 14 C atoms and ethylenic unsatd. or arom.
 heterocyclic residues contg. 3 to 10 C atoms and one or two heteroatoms,
 N, O and S; E, G, M, Q and U = C and N atoms, with the proviso that
 21 of E, G, M, Q and U are C atoms and that X is bonded to a C
 atom. R7 = Het, OHet, N(R11)Het, (CR5R6)kHet, et al. or R7 =
 -SO2-CR8-CR8-, wherein both valencies are bound vicinally to Ar1; R8, R9
 and R10 = H, A, cycloalkyl comprising 3 to 7 C atoms, Hal, et al.; Y = O,
 S, NR21, C(R22)-NO2, C(R22)-CN and C(CN)2; q = 1-3, preferably 1 or 2, p,
 r = 0-5; q = 0-4, preferably 0, 1 or 2; addnl. details are given in the
 claims.
 IT 544445-47-8P, 4-(Succinimido)-3-trifluoromethylaniline
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of 1,3-diaryleureas as inhibitors of raf and other kinases
 useful against cancer and other diseases)
 RN 544445-47-8 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-amino-2-(trifluoromethyl)phenyl)- (9CI) (CA
 INDEX NAME)



L13 ANSWER 8 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

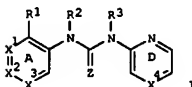
L13 ANSWER 8 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:810223 CAPLUS
 DOCUMENT NUMBER: 143:318362
 TITLE: Discovery of the Novel Antithrombotic Agent
 5-Chloro-N-((1S)-2-oxo-3-[[4-(3-oxomorpholin-4-
 yl)phenyl]-1,3-oxazolidin-5-yl]methyl)thiophene-2-
 carboxamide (BAY 59-7939): An Oral, Direct Factor Xa
 Inhibitor
 AUTHOR(S): Roehrig, Susanne; Straub, Alexander; Pohlmann, Jens;
 Lampe, Thomas; Pernertorfer, Josef; Schlemmer,
 Karl-Heinz; Reinemer, Peter; Perzborn, Elisabeth
 CORPORATE SOURCE: Bayer HealthCare AG, Wuppertal, D-42096, Germany
 SOURCE: Journal of Medicinal Chemistry (2005), 48(19),
 5900-5908
 CODEN: JMCQAR; ISSN: 0022-2623
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Despite recent progress in antithrombotic therapy, there is still an
 unmet medical need for safe and orally available anticoagulants. The
 coagulation enzyme Factor Xa (FXa) is a particularly promising target,
 and recent efforts in this field have focused on the identification of
 small-mol. inhibitors with good oral bioavailability. We identified
 oxazolidinone derivs. as a new class of potent FXa inhibitors. Lead
 optimization led to the discovery of BAY 59-7939 (5), a highly potent and
 selective, direct FXa inhibitor with excellent in vivo antithrombotic
 activity. The X-ray crystal structure of 5 in complex with human FXa
 clarified the binding mode and the stringent requirements for high
 affinity. The interaction of the neutral ligand chlorothiophene in the
 S1 subsite allows for the combination of good oral bioavailability and high
 potency for nonbasic 5. Compound 5 is currently under clin. development
 for the prevention and treatment of thromboembolic diseases.
 IT 13691-22-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (oxazolidinones preparation, factor Xa inhibition and
 structure-related oral antithrombotic action)
 RN 13691-22-0 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR
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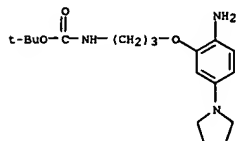
L13 ANSWER 9 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:729532 CAPLUS
 DOCUMENT NUMBER: 143:194025
 TITLE: Preparation of diaryleureas as Chk1 kinase inhibitors
 for treating cancer
 INVENTOR(S): Boyle, Robert G.; Imogal, Hassan Julien; Cherry,
 Michael; Khan, Nawaz Mohammed
 PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 81 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005072733	A1	20050811	WO 2005-US635	20050107
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, UA, UG, US, UZ, VC, VN, YU, ZA, ZH, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005176733	A1	20050811	US 2005-31544	20050107
PRIORITY APPLN. INFO.:			US 2004-537523P	P 20040120
OTHER SOURCE(S):		MARPAT 143:194025		
GI				



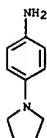
AB Title compds. I [X1-3 = CH, N provided X1-3 are not all N; X4 = CH, N; Z = O, S, N, etc.; A = (un)substituted at any carbon; D = (un)substituted by (halo)aliphatic, alkoxy, thioalkoxy, etc.; R1 = TW, etc.; T = (un)substituted
 alkylidene; W = carboxamido, aminoacyl, etc.; R2-3 = H, alkyl, etc.; R4 = halo, (thio)alkoxy, CN, etc.] are prepared For instance,
 2-Amino-N-[3-[4-chloro-2-[[N'-(5-cyanopyridin-2-yl)ureido]phenoxy]propyl]-3-(4-chlorophenyl)propionamide is prepared in several steps from
 (3-hydroxypropyl)carbamate acid tert-Bu ester, 4-chloro-1-fluoro-2-nitrobenzene, 2-Amino-5-cyanopyridine and Boc-Phe(4-Cl)-OH. Selected examples have provide >50% inhibition of Chk1 Kinase at 1.0 μM; they are useful for the treatment of cancer. Also, I potentiates the action of DNA-damaging agents such as chemotherapy and radiation therapy.
 IT 862011-00-5P, [3-[2-Amino-5-(pyrrolidin-1-

L13 ANSWER 9 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
yl)phenoxy]propyl]carbamic acid tert-butyl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
RN 862011-00-5 CAPLUS
CN Carbamic acid, [3-[2-amino-5-(1-pyrrolidinyl)phenoxy]propyl]-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

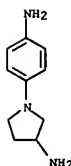


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
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L13 ANSWER 10 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:708478 CAPLUS
DOCUMENT NUMBER: 143:241375
TITLE: 2-Aminoquinazoline inhibitors of cyclin-dependent
kinases
AUTHOR(S): Bathini, Yadagiri; Singh, Inderjit; Harvey, Patricia
J.; Keller, Paul R.; Singh, Rajeshwar; Micetich,
Ronald G.; Fry, David W.; Dobrusin, Ellen M.;
Toogood, Peter L.
CORPORATE SOURCE: NAEJA Pharmaceutical Inc., Edmonton, AB, T6S5E, Can.
SOURCE: Bioorganic & Medicinal Chemistry Letters (2005),
15(17), 3881-3885
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The inhibition of cyclin-dependent kinase 4 (Cdk4) causes cell cycle
arrest and restores a checkpoint that is absent in the majority of tumor
cells. Compds. that inhibit Cdk4 selectively are targeted for treating
cancer. Appropriate substitution of 2-aminoquinazolines is demonstrated
to produce high levels of selectivity for Cdk4 vs. closely related
serine-threonine kinases.
IT 2632-65-7 503457-42-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(aminoquinazoline inhibitors of cyclin-dependent kinases)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 503457-42-9 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



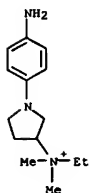
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR
THIS

L13 ANSWER 10 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 11 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:673828 CAPLUS
DOCUMENT NUMBER: 143:179089
TITLE: Hair dye composition containing an alcohol oxidase
and
a cationic oxidation base for dyeing keratin fibers
INVENTOR(S): Plos, Gregory
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Fr. Demande, 48 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

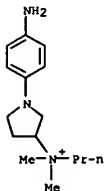
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2865388	A1	20050729	FR 2004-775	20040128
EP 1559412	A1	20050803	EP 2005-290126	20050120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
US 2005257329	A1	20051124	US 2005-44080	20050128
PRIORITY APPLN. INFO.:			FR 2004-775	A 20040128
			US 2004-544324P	P 20040217

OTHER SOURCE(S): MARPAT 143:179089
AB A composition for the dyeing of keratinous fibers, in particular of human
keratinous fibers such as the hair, contains at least an alc. oxidase
enzyme, a substrate for this enzyme, and at least a cationic oxidation
base.
A hair dye contained
[1-(4-aminophenyl)-pyrrolidin-3-yl]-trimethylammonium
chloride 3x10⁻³ mole, ethanol 25 g, meta-aminophenol 3x10⁻³ mole, alc.
oxidase 20000 units, 2-amino-2-methyl-1-propanol q.s. pH = 7, and water
q.s. 100 g.
IT 435275-61-9 435275-62-0 435275-65-3
435275-66-4 435275-67-5 435275-68-6
435275-69-7 435275-70-0 435275-72-2
435275-74-4 435275-82-4 607355-10-2
607355-11-3 607355-12-4 607355-13-5
607355-14-6 607355-15-7 607355-16-8
607355-17-9 607355-18-0 607355-20-4
607355-21-5 607355-22-6 607355-23-7
603202-98-4 701975-01-1 701975-08-8
701975-09-9 701975-10-2 701975-11-3
701975-12-4 701975-13-5 701975-14-6
701975-15-7 701975-16-8 701975-17-9
701975-20-4 701975-21-5 701975-22-6
701975-23-7 701975-24-8 701975-25-9
701975-26-0 701975-27-1 701975-28-2
701975-29-3 701975-30-6 701975-31-7
701975-34-0 701975-35-1
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dye composition containing alc. oxidase and cationic oxidation
base for dyeing keratin fibers)
RN 435275-61-9 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide
(9CI)



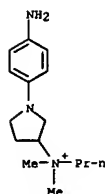
● I⁻

RN 435275-62-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide
(9CI) (CA INDEX NAME)



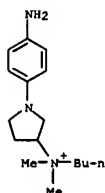
● I⁻

RN 435275-65-3 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide
(9CI) (CA INDEX NAME)



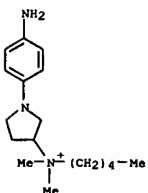
● Br⁻

RN 435275-66-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide
(9CI) (CA INDEX NAME)



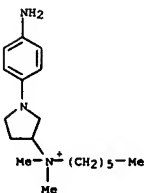
● I⁻

RN 435275-67-5 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide
(9CI) (CA INDEX NAME)



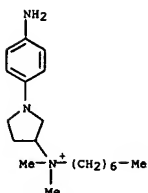
● I⁻

RN 435275-69-6 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-hexyl-, iodide
(9CI) (CA INDEX NAME)



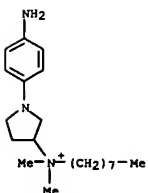
● I⁻

RN 435275-69-7 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-heptyl-, iodide
(9CI) (CA INDEX NAME)



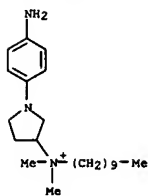
● I⁻

RN 435275-70-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl-, iodide
(9CI) (CA INDEX NAME)

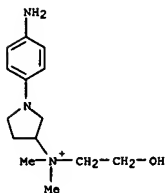


● I⁻

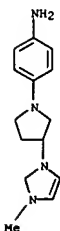
RN 435275-72-2 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-decyl-, iodide
(9CI) (CA INDEX NAME)

● I⁻

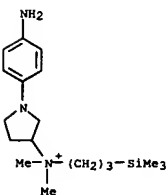
RN 435275-74-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

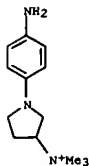
RN 435275-82-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

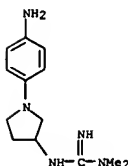
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-13-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

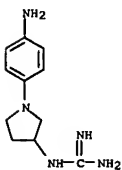
RN 607355-14-6 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

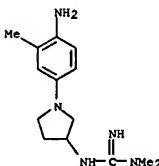
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 CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



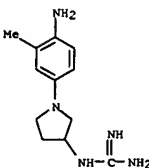
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 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



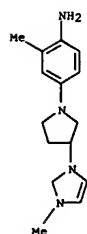
RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



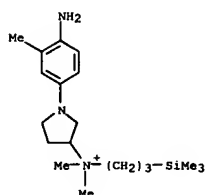
RN 607355-15-7 CAPLUS
 CN Guanidine, [1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



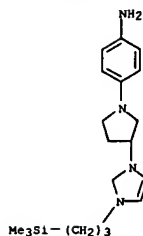
RN 607355-16-8 CAPLUS
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● Cl⁻

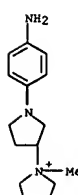
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[(4-amino-3-methylphenyl)-N,N-dimethyl-N-(3-(trimethylsilyl)propyl)-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

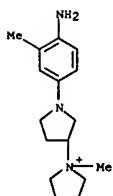
RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-(3-(trimethylsilyl)propyl)-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

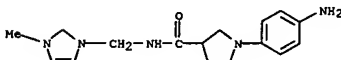
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

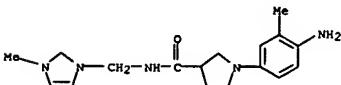
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 607355-22-6 CAPLUS
 CN 1H-Imidazolium, 1-[[[1-(4-aminophenyl)-3-pyrrolidinyl]carbonyl]amino]methyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

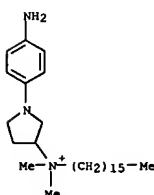
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-23-7 CAPLUS
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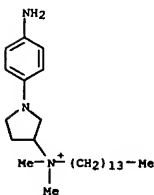
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

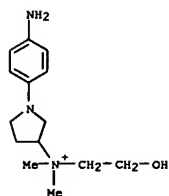
RN 683202-98-4 CAPLUS
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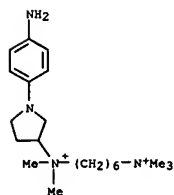
RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

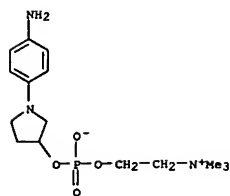
RN 701975-08-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

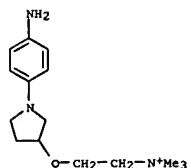
RN 701975-09-9 CAPLUS
 CN 1,6-Hexanediaminium, N-[[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

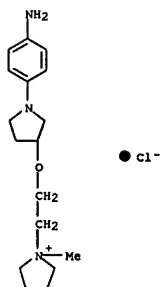
RN 701975-10-2 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



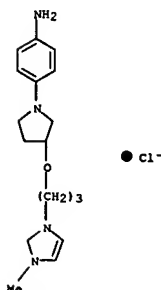
RN 701975-11-3 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

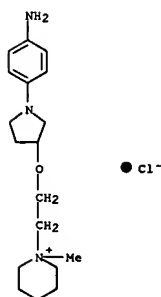
RN 701975-12-4 CAPLUS
 CN Pyrrolidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

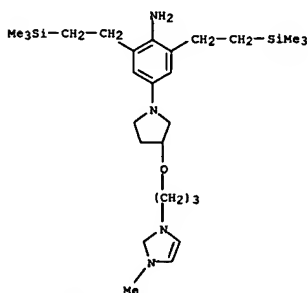
RN 701975-13-5 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

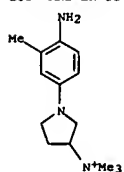
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-14-6 CAPLUS
 CN Piperidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

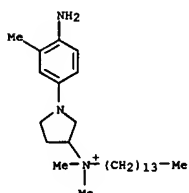
RN 701975-15-7 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

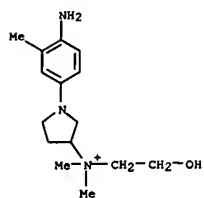
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

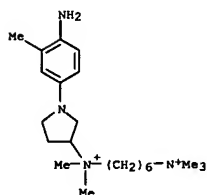
RN 701975-17-9 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

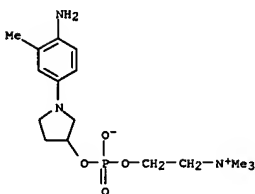
RN 701975-20-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

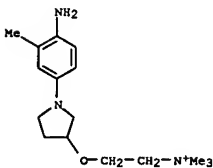
RN 701975-21-5 CAPLUS
CN 1,6-Hexanediaminium, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

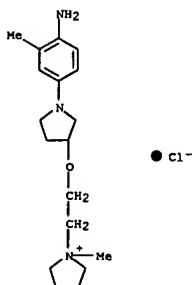
RN 701975-22-6 CAPLUS
CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



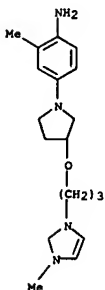
RN 701975-23-7 CAPLUS
CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

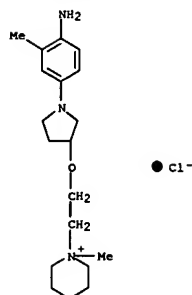
RN 701975-24-8 CAPLUS
CN Pyrrolidininium, 1-[2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

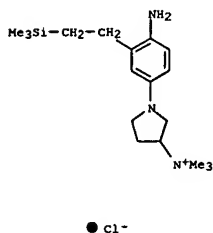
RN 701975-25-9 CAPLUS
CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

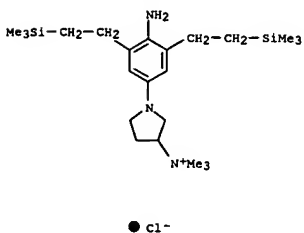
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-26-0 CAPLUS
CN Piperidinium, 1-[2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)



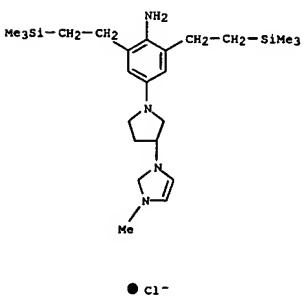
RN 701975-27-1 CAPLUS
CN 3-Pyrrolidinaminium, 1-[4-amino-3-(2-(trimethylsilyl)ethyl)phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



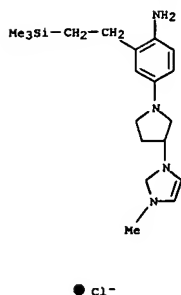
RN 701975-28-2 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3-(2-(trimethylsilyl)ethyl)phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



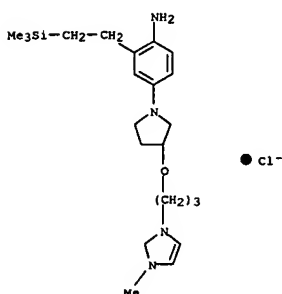
RN 701975-31-7 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



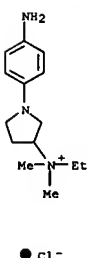
RN 701975-34-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, chloride (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-29-3 CAPLUS
CN 1H-Imidazolium, 1-[3-[[1-[4-amino-3-(2-(trimethylsilyl)ethyl)phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

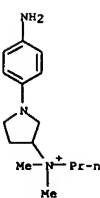


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-30-6 CAPLUS
CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



RN 701975-35-1 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1
CRN 435275-63-1
CMF C15 H26 N3

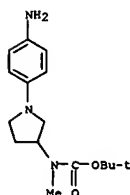


CM 2
CRN 21228-90-0
CMF C H3 O4 S

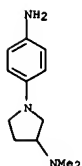
Me-O-SO3-

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L13 ANSWER 12 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:636156 CAPLUS
 DOCUMENT NUMBER: 143:241362
 TITLE: 1-(4-Amino-phenyl)-pyrrolidin-3-yl-amine and 6-(3-amino-pyrrolidin-1-yl)-pyridin-3-yl-amine derivatives as melanin-concentrating hormone receptor-1 antagonists
 AUTHOR(S): Huang, Charles Q.; Baker, Tracy; Schwarz, David; Fan, Jun; Heise, Christopher E.; Zhang, Mingzhu; Goodfellow, Val S.; Markison, Stacy; Gogas, Kathleen R.; Chen, Takung; Wang, Xiao-Chuan; Zhu, Yun-Fel
 CORPORATE SOURCE: Department of Medicinal Chemistry, Neurocrine Biosciences, Inc., San Diego, CA, 92130, USA
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(16), 3701-3706
 CODEN: BMCLE8; ISSN: 0960-894X
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Derivs. of 1-(4-amino-phenyl)-pyrrolidin-3-yl-amine and 6-(3-amino-pyrrolidin-1-yl)-pyridin-3-yl-amine were identified as potent and functionally active MCH-R1 antagonists. One compound with Ki = 2.3 nM demonstrated good oral bioavailability (32%) and in vivo efficacy in rats.
 IT 643087-83-6P 686709-51-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (pyrrolidine derivs. as melanin-concentrating hormone receptor-1 antagonists)
 RN 643087-83-6 CAPLUS
 CN Carbamic acid, [1-(4-aminophenyl)-3-pyrrolidinyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 686709-51-3 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



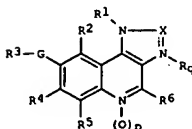
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L13 ANSWER 13 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:523451 CAPLUS
 DOCUMENT NUMBER: 143:59845
 TITLE: Preparation of 1H-imidazo[4,5-c]quinolines for the treatment of protein kinase dependent diseases
 INVENTOR(S): Capraro, Hans-Georg; Furet, Pascal;
 Garcia-Echeverria, Carlos; Stauffer, Frederic
 PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
 SOURCE: PCT Int. Appl., 138 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005054238	A1	20050616	WO 2004-EP13179	20041119
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HK, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

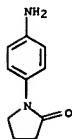
PRIORITY APPLN. INFO.: US 2003-524214P P 20031121

OTHER SOURCE(S): MARPAT 143:59845
 GI

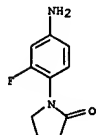


AB Title compds. I [p, q = 0-1; R1 = organic moiety that can be bound to N; X = CO, CS with provisions: G = alkenylene, alkynylene, etc.; R2-6 = H, organic moiety: when q = 1, R = ->O] are prepared For instance, 2-[4-(8-(Phenylethynyl)imidazo[4,5-c]quinolin-1-yl)phenyl]ethylamine is prepared in 8 steps from 2-amino-5-bromobenzoic acid, nitromethane, [2-(4-aminophenyl)ethyl]carbamic acid tert-Bu ester, triethylorthoformate and phenylacetylene. Selected example compds. have IC50 ≤ 0.5 μM for PDK1 kinase. I are useful in the treatment of proliferative diseases.
 IT 13691-22-0P, 1-(4-Aminophenyl)pyrrolidin-2-one
 853910-13-1P, 1-(4-Amino-2-fluorophenyl)pyrrolidin-2-one

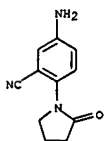
L13 ANSWER 13 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 853910-23-3P, 5-Amino-2-(2-oxopyrrolidin-1-yl)benzonitrile
 853910-36-8P, 1-(4-Amino-2-fluorophenyl)pyrrolidine-2,5-dione
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (prepn. of 1H-imidazo[4,5-c]quinolines for treatment of protein kinase
 dependent diseases)
 RN 13691-22-0 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



RN 853910-13-1 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-2-fluorophenyl)- (9CI) (CA INDEX NAME)

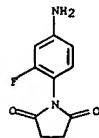


RN 853910-23-3 CAPLUS
 CN Benzonitrile, 5-amino-2-(2-oxo-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 853910-36-8 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-amino-2-fluorophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 13 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



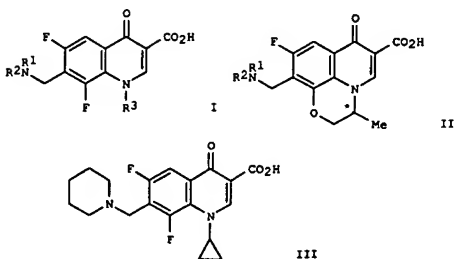
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 14 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:518737 CAPLUS
 DOCUMENT NUMBER: 143:43778
 TITLE: Preparation of quinolone derivatives as antibacterial
 agents
 INVENTOR(S): Zhou, Weicheng; Zhang, Zhenfa; Shi, Xiang
 PATENT ASSIGNEE(S): Shanghai Inst. of Medicine Industry, Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, No pp.
 given
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1493562	A	20040505	CN 2002-112378	20020704

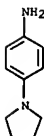
PRIORITY APPLN. INFO.: CN 2002-112378 20020704

GI



AB Title compds. represented by the formula I and II [wherein R1, R2 = H,
 (aryl)alkyl or NR1R2 = cyclic ring; R3 = Et or cyclopropyl] were
 prepared as
 antibacterial agents. For example, III was given in a multi-step
 synthesis starting from Et
 1-cyclopropyl-6,8-difluoro-7-nitro-1,4-dihydro-
 4-oxo-3-acetate. I and II were tested for antibacterial activity against
 Staphylococcus aureus, Staphylococcus epidermidis, Streptococcus
 pneumoniae, etc.
 IT 2632-65-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of difluoroquinolone carboxylic acid derivs. as
 antibacterial
 agents)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 14 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 15 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN

ACCESSION NUMBER: 2005:467804 CAPLUS
DOCUMENT NUMBER: 143:7491

TITLE: Process for the preparation of p-phenylenediamines comprising pyrrolidines substituted by nitrogen radicals and their intermediates via

cyclocondensation

INVENTOR(S): of p-substituted anilines with 1,4-dihalo-2-butanols
Bordier, Thierry; Xu, Jinzhu
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: Eur. Pat. Appl., 41 pp.

DOCUMENT TYPE: Patent
LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1535905	A1	20050601	EP 2004-106117	20041126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
FR 2862969	A1	20050603	FR 2003-50939	20031128
US 2005209466	A1	20050922	US 2004-995558	20041124
PRIORITY APPL. INFO.:			FR 2003-50939	A 20031128

OTHER SOURCE(S): MARPAT 143:7491
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention is related to the preparation of p-phenylenediamines I via cyclocondensation of p-substituted anilines II with 1,4-disubstituted-2-butanols of formula Y-(CH₂)₂-CH(OH)-CH₂-Y [the carbon connecting R₂ to pyrrolidine ring is a/chiral; n = 0-4; when n ≥ 2, R₁ = identical or different; R₁ = halo, linear or branched aliphatic hydrocarbyl, aryl, etc.;

R₁ cannot be a peroxide bond, N³⁺, N²⁺, or NO; R₂ = (non)cationic N radical]. The advantages include elimination of 3-pyrrolidinol as starting material, use of cheap materials, and a viable industrial scale-up. Thus, cyclocondensation of 4-aminoacetanilide with 1,4-dibromo-2-butanol gave pyrrolidinol III in 72.7% yield. Activation

of III with MeSO₂Cl, substitution with TMA in EtOH, and HCl-catalyzed deacetylation gave IV=Cl-HCl.

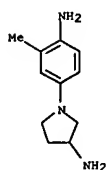
IT 361346-25-0P, 1-(4-Amino-3-methylphenyl)pyrrolidin-3-amine dihydrochloride 361346-44-3P, 1-(4-Aminophenyl)-N,N-dimethylpyrrolidin-3-amine Dihydrochloride 361346-49-8P, 1-(4-Aminophenyl)pyrrolidin-3-amine dihydrochloride 607354-86-9P, 3-[1-(4-Aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-imidazol-1-ium chloride 607354-98-3P, 1-[1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]-3-methyl-1H-imidazol-3-ium chloride monohydrochloride 852615-57-7P, [1-(4-Aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride monohydrochloride 852615-61-3P, 1-(4-Aminophenyl)-N,N-(dihydroxyethyl)pyrrolidin-3-amine dihydrochloride 852615-62-4P, [1-(4-Aminophenyl)pyrrolidin-3-yl]pyridinium

L13 ANSWER 15 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

chloride monohydrochloride 852615-63-5P, [1-(4-Aminophenyl)pyrrolidin-3-yl](methyl)piperidinium chloride monohydrochloride 852615-64-6P, 1-(4-Aminophenyl)-N-methylpyrrolidin-3-amine dihydrochloride 852615-65-7P, [1-(4-Amino-3-methylphenyl)pyrrolidin-3-yl]trimethylammonium chloride Dihydrochloride 852615-66-8P 852615-67-9P, 1-[(4-Aminophenyl)(pyrrolidin-3-yl)amino]guanidine dihydrochloride RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

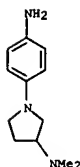
(prepn. of p-phenylenediamines comprising pyrrolidines substituted by nitrogen radicals and their intermediates via cyclocondensation of p-substituted anilines with 1,4-dihalo-2-butanols)

RN 361346-25-0 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-3-methylphenyl)-, dihydrochloride (9CI)
(CA INDEX NAME)



● 2 HCl

RN 361346-44-3 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-N,N-dimethyl-, dihydrochloride (9CI)
(CA INDEX NAME)

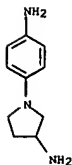


● 2 HCl

RN 361346-49-8 CAPLUS

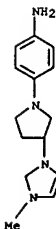
L13 ANSWER 15 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 607354-86-9 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)



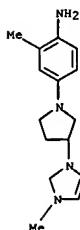
● HCl

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607354-98-3 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 15 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

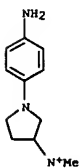


● HCl

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

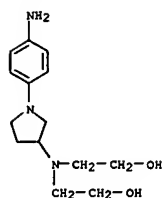
RN 852615-57-7 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)



● Cl⁻

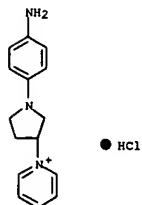
● HCl

RN 852615-61-3 CAPLUS
CN Ethanol, 2,2'-[1-(4-aminophenyl)-3-pyrrolidinyl]imino]bis-, dihydrochloride (9CI) (CA INDEX NAME)

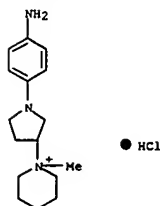


● 2 HCl

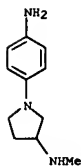
RN 852615-62-4 CAPLUS
 CN Pyridinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-, chloride, monohydrochloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 852615-63-5 CAPLUS
 CN Piperidinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-1-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)

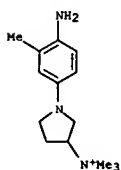
● Cl⁻

RN 852615-64-6 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-N-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



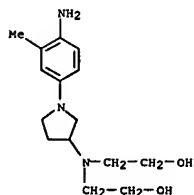
● 2 HCl

RN 852615-65-7 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-, chloride, dihydrochloride (9CI) (CA INDEX NAME)

● Cl⁻

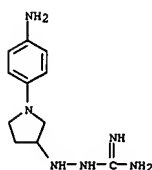
● 2 HCl

RN 852615-66-8 CAPLUS
 CN Ethanol, 2,2'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]imino]bis-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 852615-67-9 CAPLUS
 CN Hydrazinecarboximidamide, 2-[1-(4-aminophenyl)-3-pyrrolidinyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 16 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:467803 CAPLUS
 DOCUMENT NUMBER: 143:7490
 TITLE: Process for the preparation of optically active 1-(4-nitrophenyl)-3-pyrrolidinol derivatives without isolating (R)-3-pyrrolidinols intermediates, and para-phenylenediamines comprising chiral pyrrolidinyl groups for use in dyeing compositions for keratinous fibers
 INVENTOR(S): Bordier, Thierry; Xu, Jinzhu
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 35 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1535904	A2	20050601	EP 2004-106111	20041126
EP 1535904	A3	20050713		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
FR 2862970	A1	20050603	FR 2003-50940	20031128
US 2005209464	A1	20050922	US 2004-995559	20041124
PRIORITY APPLN. INFO.:			FR 2003-50940	A 20031128
			US 2003-531966P	P 20031224

OTHER SOURCE(S): MARPAT 143:7490
 GI

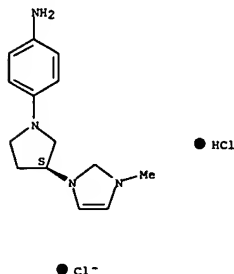
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention is related to the preparation of optically active 1-(4-nitrophenyl)-3-pyrrolidinol deriva. (I) without isolating (R)-3-pyrrolidinols intermediates by decarboxylation of trans-4-hydroxy-L-proline (II), amination of 4-halonitrobenzene III with II, followed by optionally inversion of configuration [n = 0-4; when n = 2, R1 = identical or different; R1 = H, linear or branched aliphatic hydrocarbyl, aryl, etc.; R2 = (non)cationic nitrogen radical]. The invention is also related to the preparation of chiral amines IV and their use as oxidation bases in dyeing compns. for keratinous fibers and dyeing kit containing said compns. (no data). The advantages include reduced number of steps, high global yield, and simple process. For example, decarboxylation of II in NMP at 155 for 3 h and amination of 4-fluoronitrobenzene with (R)-3-pyrrolidinol generated in-situ gave I (R1 = H). V=Cl-HCl was prepared in 3 steps by activation of I (R1 = H) with MeSO2Cl, substitution with N-methylimidazole, and hydrogenation over Pd/C.

IT 852619-37-SP
 RL: COS (Cosmetic use); IMF (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of optically active 1-(4-nitrophenyl)-3-pyrrolidinols without

L13 ANSWER 16 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 isolating (R)-3-pyrrolidinols intermediates, and para-phenylenediamines comprising chiral pyrrolidinyl groups for use in dyeing compns. for keratinous fibers)
 RN 852619-37-5 CAPLUS
 CN 1H-Imidazolium, 1-[(3S)-1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L13 ANSWER 17 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2005:409506 CAPLUS
 DOCUMENT NUMBER: 142:463745
 TITLE: Preparation of hydroxybenzimidazole-pyrimidines or -pyridines as protein kinase inhibitors
 INVENTOR(S): Elbaum, Daniel; Martin, Matthew W.; Nunes, Joseph J.
 PATENT ASSIGNEE(S): Amgen Inc., USA
 SOURCE: PCT Int. Appl., 136 pp.
 CODEN: PIXKX2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005042518	A2	20050512	WO 2004-US34920	20041021
WO 2005042518	A3	20050609		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005107374	A1	20050519	US 2004-969826	20041020
PRIORITY APPLN. INFO.:			US 2003-513234P	P 20031021
			US 2004-969826	A2 20041020

OTHER SOURCE(S): MARPAT 142:463745
 GI

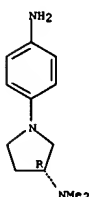
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I (R1 and R3 independently = (un)saturated, (un)substituted-carbocycle or -heterocycle; R2 = H, alkyl, Ph or benzyl; X and Y independently = N or CH; ring A = heterocycle containing 0-4 N atoms), or pharmaceutically-acceptable salts thereof, are prepared and disclosed as protein kinase inhibitors. Thus, e.g., II was prepared by substitution of 2,4-dichloropyrimidine with 2-(2-methoxyphenoxy)-1H-benzimidazole (preparation given) followed by reaction with 4-morpholinoaniline. Representative compds. of the invention were tested and found to exhibit IC50 values of at least <10 µM in the Lck HTRF kinase assay, among others, thereby demonstrating and confirming their utility as protein kinase inhibitors. Also included is a method of treatment of diseases associated with protein kinase activity.

IT 748183-83-7
 RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of anilines useful as intermediates in synthesis of

L13 ANSWER 17 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 hydroxybenzimidazole-pyrimidines or -pyridines)
 RN 748183-83-7 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-N,N-dimethyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



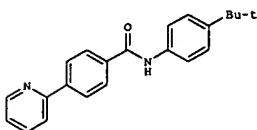
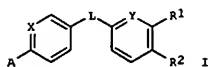
L13 ANSWER 18 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2005:349009 CAPLUS
DOCUMENT NUMBER: 142:411242
TITLE: A preparation of amides, useful as vanilloid receptor 1 (VR1) antagonists
INVENTOR(S): Lee, Chih-Hung; Koenig, John R.; Brown, Brian S.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005085512	A1	20050421	US 2003-687164	20031016
WO 2005040121	A2	20050506	WO 2004-US33480	20041012
WO 2005040121	A3	20050623		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HD, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CH, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-687164 A 20031016

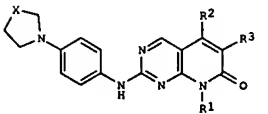
OTHER SOURCE(S): MARPAT 142:411242
GI



II

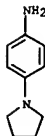
AB The invention relates to a preparation of amides of formula I (wherein: A is (hetero)aryl; X and Y are independently CH or N; L is C(O)NH, C(O)N-alkyl,

L13 ANSWER 19 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2005:205124 CAPLUS
DOCUMENT NUMBER: 142:430230
TITLE: Pyrido[2,3-d]pyrimidin-7-ones as Specific Inhibitors of Cyclin-Dependent Kinase 4
AUTHOR(S): VanderWel, Scott N.; Harvey, Patricia J.; McNamara, Dennis J.; Repine, Joseph T.; Keller, Paul R.; Quin, John, III; Booth, R. John; Elliott, William L.; Dobrusin, Ellen M.; Fry, David W.; Toogood, Peter L.
CORPORATE SOURCE: Department of Medicinal Chemistry and Cancer Pharmacology, Michigan Laboratories, Pfizer Global Research and Development, Ann Arbor, MI, 48105, USA
SOURCE: Journal of Medicinal Chemistry (2005), 48(7), 2371-2387
CODEN: JMCNAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:430230
GI

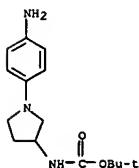


AB Inhibition of the cell cycle kinase, cyclin-dependent kinase-4 (Cdk4), is expected to provide an effective method for the treatment of proliferative diseases such as cancer. The pyrido[2,3-d]pyrimidin-7-one template has been identified previously as a privileged structure for the inhibition of ATP-dependent kinases, and good potency against Cdk4 has been reported for representative examples. Obtaining selectivity for individual Cdk enzymes, particularly Cdk4, has been challenging. A series of pyrido[2,3-d]pyrimidin-7-ones I (R1 = Me2CH, Et2CH, cyclopentyl; R2 = H, Me, Et, F3C; R3 = H, Me, F, Cl, COMe, MeO2C, etc.; X = HOCH, H2NCH, CH2N, CH2CH2, etc.) was synthesized and investigated as selective inhibitors of Cdk4. The introduction of a Me substituent at the C-5 position of the pyrido[2,3-d]pyrimidin-7-one template is sufficient to confer excellent selectivity for Cdk4 vs other Cdk4 and representative tyrosine kinases. Further optimization led to the identification of highly potent and selective inhibitors of Cdk4 that exhibit potent antiproliferative activity against human tumor cells in vitro. The most selective Cdk4 inhibitors were evaluated for antitumor activity against MDA-MB-435 human breast carcinoma xenografts in mice.
IT 330551-18-3 303457-32-7
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
inhibitors (preparation of (arylamino)pyrido[2,3-d]pyrimidinones as specific of cyclin-dependent kinase 4 and antitumor agents)
RN 330551-18-3 CAPLUS

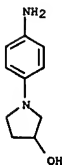
L13 ANSWER 18 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
NHC(O), etc.; R1 and R2 are independently selected from H, alkoxy, alkyl, or aryloxy, etc.; useful as vanilloid receptor 1 (VR1) antagonists. The invention compds. are useful in the treatment of pain, inflammatory thermal hyperalgesia, urinary incontinence, or bladder overactivity. For instance, pyridinylbenzamide deriv. II was prep. via amidation of 4-(2-pyridinyl)benzoic acid by 4-tert-butylaniline. The preferred compds. of the invention were found to be antagonists of the vanilloid receptor subtype 1 with IC50 values ranging from about 500 nM to 0.1 nM.
IT 2632-65-7, 4-(1-pyrrolidinyl)aniline
RL: RCT (Reactant); RACT (Reactant or reagent)
antagonists (reactant; preparation of amides useful as vanilloid receptor 1)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 19 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
CN Carbamic acid, [1-(4-aminophenyl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 503457-32-7 CAPLUS
CN 3-Pyrrolidinol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

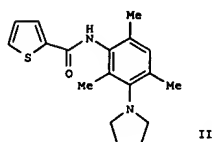
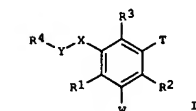


REFERENCE COUNT: 87 THERE ARE 87 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L13 ANSWER 20 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:185392 CAPLUS
DOCUMENT NUMBER: 142:280229
TITLE: A preparation of urotensin II receptor antagonists and
INVENTOR(S): CCR-9 antagonists
Wu, Chengde; Anderson, C. Eric; Bui, Huong; Gao, Daxin; Kassir, Jamal; Li, Wen; Wang, Junmei;
Biediger, Ronald; Chen, Jie; Market, Robert V.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 33 pp., Cont.-in-part of U.S. Ser. No. 781,442.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

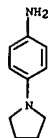
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005049286	A1	20050303	US 2004-924180	20040823
US 2004180892	A1	20040916	US 2004-781442	20040218
PRIORITY APPLN. INFO.:			US 2003-448791P	P 20030220
			US 2004-781442	A2 20040218

OTHER SOURCE(S): MARPAT 142:280229
GI

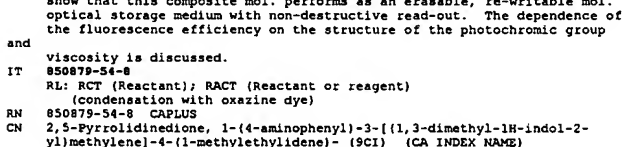


AB The invention relates to a preparation of urotensin II receptor antagonists and
CCR-9 antagonists of formula I [wherein: R1, R2, and R3 are independently selected from H, halogen, alkyl, aryl, or CN, etc.; X is CH2, O, or NH,

L13 ANSWER 20 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
etc.; Y is SO2, C(O), CH2SO2, NHC(O), or NHSO2, etc.; T and W are independently selected from H, (cyclo)alkyl, alkoxy, aryl, or halogen, etc.; R4 is aryl, heterocyclyl, or cycloalkyl. For instance, thiophenecarboxamide deriv. II was prep'd. via amidation of thiophene-2-carboxylic acid by [2,4,6-trimethyl-3-(pyrrolidin-1-yl)phenyl]amine. The invention compds. were tested for inhibition of human urotensin II-induced Ca2+ mobilization in UTR cells (IC50 > 0.5 μM).
IT 2632-65-7P
RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of urotensin II receptor antagonists and CCR-9 antagonists)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 21 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:175365 CAPLUS
DOCUMENT NUMBER: 142:438513
TITLE: Dependence of the fluorescence of a composite photochromic molecule on structure and viscosity
AUTHOR(S): Dvornikov, Alexander; Liang, Yongchao; Rentzepis, Peter
CORPORATE SOURCE: Department of Chemistry, University of California, Irvine, CA, 92697-2025, USA
SOURCE: Journal of Materials Chemistry (2005), 15(10), 1072-1078
CODEN: JMACEP; ISSN: 0959-9428
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The spectroscopic properties, transient spectra and kinetics of a composite mol. are described. This mol. consists of a photochromic moiety
chemical bonded to a strongly fluorescing dye. Exptl. data presented here
show that this composite mol. performs as an erasable, re-writable mol. optical storage medium with non-destructive read-out. The dependence of the fluorescence efficiency on the structure of the photochromic group and
viscosity is discussed.
IT 850879-54-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation with oxazine dye)
RN 850879-54-8 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)-3-[(1,3-dimethyl-1H-indol-2-yl)methylene]-4-(1-methylethylidene)- (9CI) (CA INDEX NAME)

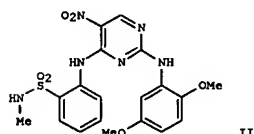
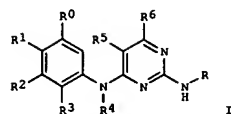


REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L13 ANSWER 22 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:158647 CAPLUS
DOCUMENT NUMBER: 142:261547
TITLE: Preparation of 2,4-pyrimidinediamines useful in the treatment of neoplastic diseases, inflammatory and immune system disorders
INVENTOR(S): Garcia-eccheverria, Carlos; Kanazawa, Takanori; Kawahara, Elji; Masuya, Keiichi; Matsura, Naoko; Miyake, Takahiro; Ohmori, Osamu; Umemura, Ichiro; Steensma, Ruo; Chopiuk, Greg; Jiang, Jiqing; Wan, Yongqin; Ding, Qiang; Zhang, Qiong; Gray, Nathanael
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.; IRM LLC
SOURCE: PCT Int. Appl., 285 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005016894	A1	20050224	WO 2004-EP9099	20040813
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, ME, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			GB 2003-19227	A 20030815
			GB 2003-22370	A 20030924

OTHER SOURCE(S): MARPAT 142:261547
GI



AB The title compds. I [R = aryl, heteroaryl, cycloalkyl and heterocycloalkyl; R0-R3 = H, alkyl, cycloalkyl, etc.; R4 = H, alkyl; R5, R6 = H, alkyl, alkoxyalkyl, etc.], useful for the manufacture of a medicament for the treatment or prevention of a disease which responds to inhibition of FAK and/or ALK and/or ZAP-70 and/or IGF-IR, were prepared and formulated.

E.g., a 2-step synthesis of II, starting from 2,4-dichloro-5-nitropyrimidine and 2-amino-N-methylbenzenesulfonamide, was given. The compds. I have IC50 values in the range of 10 nM to 2 µM in cell-free ZAP-70 kinase assay.

IT 503457-38-3P 761440-73-7P 761440-84-0P

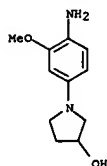
761440-86-2P 761440-94-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

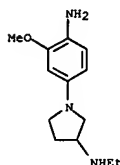
(preparation of 2,4-pyrimidinediamines useful in the treatment of neoplastic diseases, inflammatory and immune system disorders)

RN 503457-38-3 CAPLUS

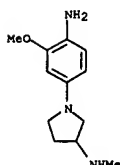
CN 3-Pyrrolidinol, 1-(4-amino-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



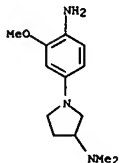
RN 761440-73-7 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-3-methoxyphenyl)-N-ethyl- (9CI) (CA INDEX NAME)



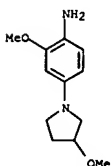
RN 761440-84-0 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-3-methoxyphenyl)-N-methyl- (9CI) (CA INDEX NAME)



RN 761440-86-2 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-3-methoxyphenyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 761440-94-2 CAPLUS
CN Benzenamine, 2-methoxy-4-(3-methoxy-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

ACCESSION NUMBER: 2005:118441 CAPLUS
DOCUMENT NUMBER: 142:229090
TITLE: Liquid crystal orientation agent, liquid crystal orientation film, and liquid crystal display element
INVENTOR(S): Mutsuga, Yasuaki
PATENT ASSIGNEE(S): JSR Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.
CODEN: JKOXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005037920	A2	20050210	JP 2004-183328	20040622
PRIORITY APPLN. INFO.:			JP 2003-178983	A 20030624

GI

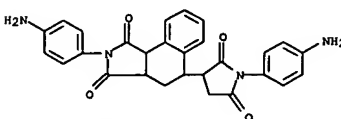
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Disclosed is the liquid crystal orientation agent containing 21 polymer selected from I-IV (Q, R = tetravalent organic group; and X, Y = divalent organic group).

IT 842125-84-2
RL: NUU (Other use, unclassified); USES (Uses)
(liquid crystal orientation agent and film therefrom for LCD element)

RN 842125-84-2 CAPLUS

CN 1H-Benz[e]isoindole-1,3(2H)-dione, 2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro- (9CI) (CA INDEX NAME)



IT 842125-88-6P

RL: NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(liquid crystal orientation agent and film therefrom for LCD element)

RN 842125-88-6 CAPLUS

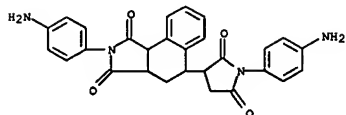
CN Cyclobuta[1,2-c:3,4-c']difurantetrone, tetrahydro-, polymer with

2-(4-aminophenyl)-5-[1-(4-aminophenyl)-2,5-dioxo-3-pyrrolidinyl]-3a,4,5,9b-tetrahydro-1H-benz[e]isoindole-1,3(2H)-dione (9CI) (CA INDEX NAME)

CM 1

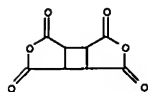
CRN 842125-84-2

L13 ANSWER 23 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CMF C28 H24 N4 O4



CM 2

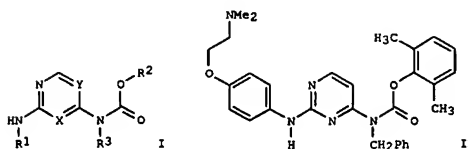
CRN 4415-87-6
CMF C8 H4 O6



L13 ANSWER 24 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:99485 CAPLUS
DOCUMENT NUMBER: 142:198090
TITLE: Preparation of 2-aminopyrimidines and 2-aminopyridine-4-carbamates for use in the treatment of autoimmune diseases
INVENTOR(S): Buchanan, John L.; Elbaum, Daniel; Martin, Matthew W.; McGowan, David C.; Novak, Perry M.; Nunes, Joseph J.
PATENT ASSIGNEE(S): Amgen Inc., USA
SOURCE: PCT Int. Appl., 267 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

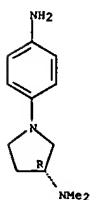
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005009978	A1	20050203	WO 2004-US23233	20040715
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005026914	A1	20050203	US 2004-891636	20040713
PRIORITY APPLN. INFO.:			US 2003-490220P	P 20030724
			US 2004-891636	A 20040713

OTHER SOURCE(S): MARPAT 142:198090
GI



AB Pyrimidine or pyridine carbamates I (wherein X, Y = N or CH, provided that at least one of X and Y is CH; R1 - R3 = certain (un)substituted alkyl, monocyclic or bicyclic ring; or pharmaceutically acceptable salts thereof) were prepared. For example, substitution of 2,4-dichloropyrimidine at the C4

L13 ANSWER 24 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
with benzylamine followed by acylation of the resultant secondary amine with 2,6-Dimethylphenyl chloroformate, and subsequent amination at the C2 with 4-(2-dimethylaminoethoxy)phenylamine afforded II. Representative compds. I exhibited inhibition with IC50 values of ≤ 10 μ M in the LCK-homogeneous time resolved fluorescent kinase assay and other assays. Therefore, I and pharmaceutical compns. thereof are active protein kinase inhibitors and T cell activation inhibitors, and are useful in the prophylaxis and treatment of many diseases such as autoimmune and hyperproliferative disorders.
IT 748183-83-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aminopyrimidines and pyridinecarbamates for use in treatment of autoimmune diseases)
RN 748183-83-7 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-N,N-dimethyl-, (3R)- (9CI) (CA INDEX NAME)
Absolute stereochemistry.

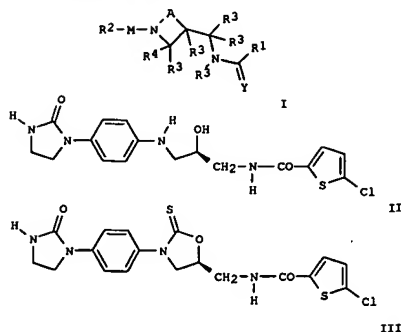


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 25 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:1016039 CAPLUS
DOCUMENT NUMBER: 142:6516
TITLE: Preparation of 2-thioxazolidones and related compounds for the treatment of thromboembolic illnesses
INVENTOR(S): Gerdes, Christoph; Perzborn, Elisabeth; Pohlmann, Jens; Roehrig, Susanne; Straub, Alexander; Thomas, Christian R.; Tuch, Arounath; Schlemmer, Karl-Heinz
PATENT ASSIGNEE(S): Bayer Healthcare A.-G., Germany
SOURCE: PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004101557	A1	20041125	WO 2004-EP4836	20040506
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10322469	A1	20041216	DE 2003-10322469	20030519
CA 2526086	AA	20041125	CA 2004-2526086	20040506
PRIORITY APPLN. INFO.:			DE 2003-10322469	A 20030519
			WO 2004-EP4836	W 20040506

GI



AB Title compds. I [A = S(O)O, S(O₂)O, S(O)NR₅, etc.; M = (un)substituted aryl, pyridyl, pyrimidyl, etc.; R₁ = (un)substituted aryl, heteroaryl, heterocyclyl, etc.; R₂ = (un)substituted aryl, pyridyl, pyrimidyl, etc.; R₃ = H, alkyl; R₄ = H, (un)substituted alkoxycarbonyl, alkylaminocarbonyl, etc.; R₅ = H, alkyl; Y = O, S] and their pharmaceutically acceptable salts and formulations were prepared. For example, N,N'-thiocarbonyldiimidazole mediated cyclization of aminoalc. II, e.g., prepared from 1-(4-aminophenyl)imidazolidin-2-one and 5-chloro-N-((2S)-2-oxiranymethyl)-2-thiophenecarboxamide, afforded thiooxazolidone III in 22% yield.

Comps. I are claimed useful for the treatment of thromboembolic illnesses.

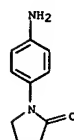
IT 13691-22-0, 1-(4-Aminophenyl)pyrrolidin-2-one

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of thiooxazolidones and related compds. for the treatment of

thromboembolic illnesses)

RN 13691-22-0 CAPLUS

CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



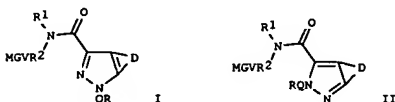
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ACCESSION NUMBER: 2004:1011963 CAPLUS
DOCUMENT NUMBER: 142:6526
TITLE: Preparation of indazolecarboxamides as factor VIIa and/or factor Xa inhibitors
INVENTOR(S): Matzke, Marc; Wehner, Volkmar; Laux, Volker; Urmann, Matthias; Bauer, Armin; Matter, Hans
PATENT ASSIGNEE(S): Aventis Pharma Deutschland GmbH, Germany
SOURCE: Eur. Pat. Appl., 103 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1479675	A1	20041124	EP 2003-11303	20030519
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
WO 2004101556	A1	20041125	WO 2004-EP4753	20040505
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004235824	A1	20041125	US 2004-849088	20040519
PRIORITY APPLN. INFO.:			EP 2003-11303	A 20030519
			US 2003-507171P	P 20030930

OTHER SOURCE(S): MURPAT 142:6526
GI



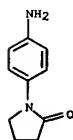
AB Title compds. [I, II: R = (substituted) mono- or bicyclic aryl, heterocyclyl; D = atom or (substituted) 4-8 membered (heterocyclic) (aromatic) ring; R₁ = H, (substituted) alkyl, aminocarbonylalkyl, alkoxycarbonylalkyl, aryl, heterocyclyl, etc.; R₂ = bond, alkylene; V = (substituted) heterocyclyl, aryl; G = bond, (CH₂)mNR₁OSO₂(CH₂)n, (CH₂)mNR₁OSO₂(CH₂)n, (CH₂)mCH(OH)(CH₂)n, (CH₂)m, (CH₂)mO(CH₂)n, (CH₂)mS(CH₂)n, etc.; m, n = 0-6; R₁₀ = H, alkyl, hydroxyalkyl, alkoxyalkyl, perfluoroalkyl, with provisos], were prepared

Thus, 1-[5-(5-chlorothiophen-2-yl)isoxazol-3-ylmethyl]-5-(cyanamide-1-carbonyl)-1H-indazole-3-carboxylic acid (1-isopropylpiperidin-4-yl)amide (prepn. outlined) inhibited factor Xa with K_i = 5 nM.

IT 13691-22-09
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of indazolecarboxamides as factor VIIa and/or factor Xa inhibitors)

RN 13691-22-0 CAPLUS

CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L13 ANSWER 27 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:857183 CAPLUS
DOCUMENT NUMBER: 141:350195
TITLE: Preparation of aromatic sulfonamides as
peroxynitrite-rearrangement catalysts
INVENTOR(S): Blume, Thorsten; Neuhaus, Roland; Suelzle, Detlev;
Prißilla, Iris; Depke, Gisbert; Beckman, Joseph S.
PATENT ASSIGNEE(S): Schering AG, Germany
SOURCE: U.S. Pat. Appl. Publ., 12 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

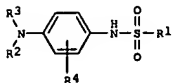
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004204452	A1	20041014	US 2003-410594	20030410
US 6946466	B2	20050920		
CA 2521653	AA	20041021	CA 2004-2521653	20040406
WO 2004089882	A2	20041021	WO 2004-EP3686	20040406
WO 2004089882	A3	20041216		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HT, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

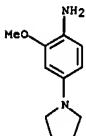
US 2005288324 A1 20051229 US 2005-196381 20050804
PRIORITY APPLN. INFO.: US 2003-410594 A 20030410
WO 2004-EP3686 W 20040406

OTHER SOURCE(S): MARPAT 141:350195
GI

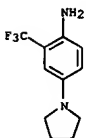


AB Aroms. sulfonamides of the general formula (I) [R1 = (un)substituted C5-6 cycloalkyl whose ring may optionally be interrupted by one or more N, S or O atoms and/or may contain one or more possible double bonds in the ring, or (un)substituted C3-7 aryl or C3-12 heteroaryl; R2, R3 = C1-6 alkyl or alkoxy or R2 and R3 together with the nitrogen atom form an (un)substituted C5-6 cycloalkyl ring which may optionally be interrupted by a further nitrogen atom in the ring; R4 = H, HO, NO2, halo, C1-6 alkyl,

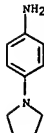
L13 ANSWER 27 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 773899-18-6 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 27 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CO2H, CF3, C1-6 alkoxy] and the isomers, diastereomers, enantiomers and salts thereof are prep. These compds. are useful as peroxynitrite rearrangement catalysts by which peroxynitrite, a toxic metabolite resulting from the diffusion-controlled reaction between nitric oxide with superanion (O2-), is rearranged into harmless end products, and thus used as medicaments for the treatment and prophylaxis of peroxynitrite-mediated various disorders such as chronic and acute neurodegenerative disorders, autoimmune diseases, inflammatory disorders, infectious diseases, cancer, viral infections, cardiovascular disorders, and nephrol. disorders.
Thus, 25 mg 4-piperidinoaniline was condensed with 3,5-dimethylisoxazole-4-sulfonyl chloride to give 21 mg 3,5-dimethylisoxazole-4-sulfonyl N-[4-(piperidin-1-yl)phenyl]amide (II). II inhibited the conversion of dihydrozodamine (DHR) into rhodamine by reaction with peroxynitrite with IC50 of 0.95 µM.
IT 2632-65-7, 4-(Pyrrolidin-1-yl)phenylamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aromatic sulfonamides as peroxynitrite-rearrangement catalysts for in vivo rearrangement of peroxynitrite in treatment and prophylaxis of peroxynitrite-mediated disorders)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



IT 143525-62-6P, 2-Methoxy-4-(pyrrolidin-1-yl)aminobenzene
773899-18-6P, 5-(Pyrrolidin-1-yl)-2-aminobenzotrifluoride
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aromatic sulfonamides as peroxynitrite-rearrangement catalysts for in vivo rearrangement of peroxynitrite in treatment and prophylaxis of peroxynitrite-mediated disorders)
RN 143525-62-6 CAPLUS
CN Benzenamine, 2-methoxy-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 28 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:817853 CAPLUS
DOCUMENT NUMBER: 141:331920
TITLE: Preparation of benzamide compounds as phosphorus transport inhibitors
INVENTOR(S): Eto, Nobuaki; Nagao, Rika; Miyazaki, Tetsuko
PATENT ASSIGNEE(S): Kirin Beer Kabushiki Kaisha, Japan
SOURCE: PCT Int. Appl., 787 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004085382	A1	20041007	WO 2004-JP4427	20040329

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HT, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

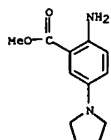
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

EP 1614676 A1 20060111 EP 2004-724132 20040329
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
PRIORITY APPLN. INFO.: JP 2003-89173 A 20030327
WO 2004-JP4427 W 20040329

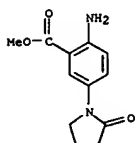
OTHER SOURCE(S): MARPAT 141:331920
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [A = (un)substituted unsatd. carbocycle, heterocycle; dotted line indicates single or double bond; Z = N:CR6R7, etc.; R6, R7 = H, alkyl, etc.; R1 and R2 in combination represents oxo and R3 = R4 = H or R1 and R4 in combination represents a bond and R2 and R3 in combination represents a bond; R5 = alkyl, etc.] were prepared. For example, condensation of N-(2-hydrazinocarbonylphenyl)-3,4-dimethoxybenzaldehyde, e.g., prepared from Me 2-aminobenzoate in 2 steps, with trans-cinnamaldehyde afforded compound II in 57% yield. In sodium-dependency inhibition assays, the IC50 value of compound II was 9.11 µM. Compds. I are claimed useful for the treatment of renal insufficiency, hyperthyroidism, etc.
IT 773071-94-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of benzamide compds. as phosphorus transport inhibitors)
RN 773071-94-6 CAPLUS
CN Benzoic acid, 2-amino-5-(1-pyrrolidinyl)-, methyl ester (9CI) (CA INDEX



IT 773071-47-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of benzamide compds. as phosphorus transport inhibitors)
 RN 773071-47-9 CAPLUS
 CN Benzoic acid, 2-amino-5-(2-oxo-1-pyrrolidinyl)-, methyl ester (9CI) (CA INDEX NAME)

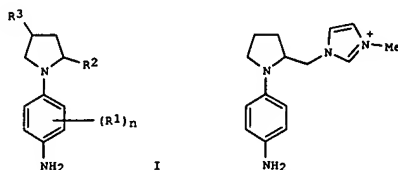


REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 29 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:796305 CAPLUS
 DOCUMENT NUMBER: 141:295851
 TITLE: Preparation of p-phenylenediamines with a disubstituted pyrrolidine group, bearing a cationic radical and their use for dyeing keratinic fibers
 INVENTOR(S): Ramos, Laure; Sabelle, Stephane
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 32 pp.
 CODEN: EPKXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

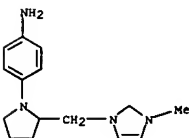
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1462453	A1	20040929	EP 2004-290635	20040309
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CS, EE, HU, PL, SK,				
HR FR 2852953	A1	20041001	FR 2003-3873	20030328
JP 2004300155	A2	20041028	JP 2004-93404	20040326
US 2004248961	A1	20041209	US 2004-810814	20040329
PRIORITY APPLN. INFO.:			FR 2003-3873	A 20030328
			US 2003-469013P	P 20030509

OTHER SOURCE(S): MARPAT 141:295851
 GI



AB Title compds. I [wherein n = 0-4; when n ≥ 2, R1 can be identical or different; R1 = halo, Z, (un)saturated (un)substituted aliphatic or alicyclic hydrocarbyl, optionally containing one or more O, Si, S, or SO2; R1 is not -O-O-, diazo, nitro or nitroso; R2 = Z, CO2H and derivs., monoalkyl/dialkyl/carbamoyl, etc.; R3 = Z, H, OH and derivs., NH2 and derivs., SH, CO2H and derivs., monoalkyl/dialkylcarbamoyl, alkylsulfonyle, alkyl, etc.; provided that at least one of R2 and R3 is an onium radical; Z = onium radical selected from trialkylammonium, pyridinium, 1H-imidazol-3-ium; 3H-imidazol-1-ium, etc.; and their addition salts] were prepared as oxidation bases for dyeing keratinous fibers, in particular human

L13 ANSWER 29 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 hair fibers. For example, II=Cl=HCl was prepd., in 3 steps, via substitution of 2-chloromethyl-1-(4-nitrophenyl)pyrrolidine (prepn. given)
 in N-methylimidazole in toluene at reflux for 9 h, and hydrogenation of the nitro deriv. over Pd/C. Formulations of II=Cl=HCl in acidic medium gave blue-violet and gray shades.
 IT 764662-19-3P, 3-[[1-(4-aminophenyl)pyrrolidin-2-ylmethyl]-1-methyl-3H-imidazol-1-ium chloride hydrochloride
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (oxidation base for dyeing; preparation of p-phenylenediamines with a disubstituted pyrrolidine group, bearing a cationic radical and their use for dyeing keratinic fibers)
 RN 764662-19-3 CAPLUS
 CN 1H-Imidazolium, 1-[[1-(4-aminophenyl)-2-pyrrolidinylmethyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)



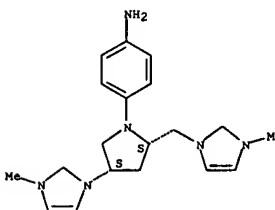
● Cl⁻

● HCl

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 IT 764662-23-9P
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (oxidation base in dyeing; preparation of p-phenylenediamines with a disubstituted pyrrolidine group, bearing a cationic radical and their use for dyeing keratinic fibers)
 RN 764662-23-9 CAPLUS
 CN 1H-Imidazolium, 1-[[1-(4-aminophenyl)-5-[[3-methyl-1H-imidazolium-1-yl)methyl]-3-pyrrolidinyl]-3-methyl-, dimethanesulfonate (9CI) (CA INDEX NAME)
 CM 1
 CRN 764662-22-8
 CMP C19 H26 N6

Absolute stereochemistry.

L13 ANSWER 29 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 16053-58-0
 CMP C H3 O3 S

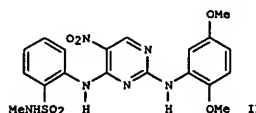
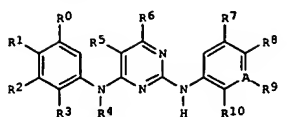


L13 ANSWER 30 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:780679 CAPLUS
 DOCUMENT NUMBER: 141:296041
 TITLE: Preparation of novel 2,4-di(phenylamino)pyrimidines useful in the treatment of neoplastic diseases, inflammatory and immune system disorders
 INVENTOR(S): Garcia-Echeverria, Carlos; Kanazawa, Takanori; Kawahara, Elji; Masuya, Keiichi; Matsuura, Naoko; Miyake, Takahiro; Ohmori, Osamu; Umemura, Ichiro
 PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
 SOURCE: PCT Int. Appl., 185 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004080980	A1	20040923	WO 2004-EP2616	20040312
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CH, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2518932	AA	20040923	CA 2004-2518932	20040312
EP 1606265	A1	20051221	EP 2004-719989	20040312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
PRIORITY APPLN. INFO.:			GB 2003-5929	A 20030314
			GB 2003-19227	A 20030815
			GB 2003-22370	A 20030924
			WO 2004-EP2616	W 20040312

OTHER SOURCE(S): MARPAT 141:296041
 GI

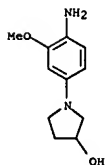
L13 ANSWER 30 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



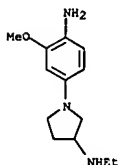
AB The title pyrimidine derivs. I [R0-R3 = H, alkyl, aryl, etc.; or R0 and R1, R1 and R2, and/or R2 and R3 form, together with the carbon atoms to which they are attached, 5-6 membered carbocyclic or heterocyclic ring comprising 0-3 heteroatoms selected from N, O and S; R4 = H, alkyl; R5, R6 = H, alkyl, alkoxyalkyl, halo, etc.; R7-R10 = alkyl, cycloalkyl, aryl, etc.; or R7 and R8, R8 and R9, and/or R9 and R10 form, together with the carbon atoms to which they are attached, 5-6 membered carbocyclic or heterocyclic ring comprising 0-3 heteroatoms selected from N, O and S; A = C, N], useful as FAK or/and IGF-1 receptor inhibitors in the treatment of neoplastic diseases, inflammatory and immune system disorders, were prepared and formulated. E.g., a 2-step synthesis of II from 2,4-dichloro-5-nitropyrimidine, 2-amino-N-methylbenzenesulfonamide, and 2,5-dimethoxyaniline which showed IC50 of 140 nM in FAK assay, was given. The pharmaceutical composition comprising the compound I is claimed.

IT 503457-38-2P 761440-73-7P 761440-84-0P 761440-86-2P 761440-94-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of 2,4-di(phenylamino)pyrimidines as FAK or/and IGF-1 receptor inhibitors useful in the treatment of neoplastic diseases, inflammatory and immune system disorders)
 RN 503457-38-3 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-amino-3-methoxyphenyl)- (9CI) (CA INDEX NAME)

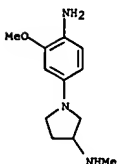
L13 ANSWER 30 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 761440-73-7 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-amino-3-methoxyphenyl)-N-ethyl- (9CI) (CA INDEX NAME)

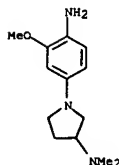


RN 761440-84-0 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-amino-3-methoxyphenyl)-N-methyl- (9CI) (CA INDEX NAME)



RN 761440-86-2 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-amino-3-methoxyphenyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)

L13 ANSWER 30 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 761440-94-2 CAPLUS
 CN Benzenamine, 2-methoxy-4-(3-methoxy-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

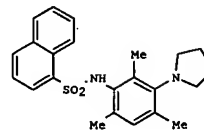
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 31 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:718308 CAPLUS
 DOCUMENT NUMBER: 141:243188
 TITLE: Preparation of phenylenediamine and thiophene carboxylic amide derivatives as urotensin-II receptor antagonists and CCR-9 antagonists
 INVENTOR(S): Wu, Chengde; Anderson, Eric C.; Bui, Huong; Gao, Daxin; Kassir, Jamal; Li, Wen; Wang, Junmei; Market, Robert V.
 PATENT ASSIGNEE(S): Encysive Pharmaceuticals Inc., USA
 SOURCE: PCT Int. Appl., 84 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004073634	A2	20040902	WO 2004-US4645	20040218
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DL, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, RW, BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2515780	AA	20040902	CA 2004-2515780	20040218
EP 1610753	A2	20060104	EP 2004-712313	20040218
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPLN. INFO.:			US 2003-448791P	P 20030220
			WO 2004-US4645	W 20040218

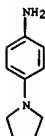
OTHER SOURCE(S): MARPAT 141:243188
 GI

L13 ANSWER 31 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB The title compds. I and II [R1, R2, R3 = H, halo, alkyl, aryl, aralkyl, CN, CF3, etc.; X = N, CH2, or O; Y = SO2, CO, CH2SO2, CH2CO, NHCO, OCO, or NHSO2; R4 = alkyl, aralkyl or (hetero)aryl, R5 = R1, or Z-NR7R8, or R4, R5 taken together with N can form a 5 or 6 membered ring; Z = (CH2)n, where n = 0-6; R6 = (hetero)aryl, Z-NR7R8; R7, R8 = H, alkyl, aryl, aralkyl or together with N form a pyrrolidine, piperazine, piperidine, or morpholine ring; E = substituted amino, O, S, CR13=CR14, or CR13=N, where R13, R14 = alkyl, (hetero)aryl, halo, OH, alkoxy, etc.; D = substituted amino, O, or S; Z = NR15 or CR15R15 where each R15 = H, alkyl, aryl, or heteroaryl; A = (substituted)amino, CO, or SO2; when A = (substituted)amino, B = SO2, CO2, or Cl6R16, where R16 = H, alkyl, aryl, or heteroaryl; when A = CO or SO2, B = (substituted)amino; R9, R10 = H, alkyl, (hetero)aryl, halo, OH, Alkoxy, or (substituted)amino; R11, R12 = H, alkyl, or (hetero)aryl] were prepared as urotensin-II receptor antagonists and CCR-9 antagonists for the treatment of congestive heart failure, stroke, ischemic heart disease, etc. For example, reaction of 2,4,6-trimethyl-3-pyrrolidinyl-1-yl-phenylamine (preparation given) with 1-naphthalenesulfonyl chloride yielded compound III. The latter showed an IC50 = 10 µM in the assay of human urotensin-II-induced CA2+ mobilization in UTR cells.
 IT 2632-65-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Preparation of phenylenediamine and thiophene carboxylic amide derivs. as urotensin-II receptor antagonists and CCR-9 antagonists)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

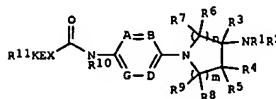
L13 ANSWER 31 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



L13 ANSWER 32 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:696342 CAPLUS
 DOCUMENT NUMBER: 141:225302
 TITLE: Preparation of N-arylheterocycles as melanin concentrating hormone (MCH) antagonists.
 INVENTOR(S): Schwink, Lothar; Stengel, Slegfried; Gossel, Matthias; Boehme, Thomas; Hessler, Gerhard; Stahl, Petra; Grotzke, Dirk
 PATENT ASSIGNEE(S): Aventis Pharma Deutschland GmbH, Germany
 SOURCE: PCT Int. Appl., 390 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004072025	A2	20040826	WO 2004-EP1342	20040213
WO 2004072025	A3	20041223		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DL, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, RW, BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10306250	A1	20040909	DE 2003-10306250	20030214
CA 2516118	AA	20040826	CA 2004-2516118	20040213
EP 1597228	A2	20051123	EP 2004-710808	20040213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2004220191	A1	20041104	US 2004-779853	20040217
NO 2005004220	A	20051028	NO 2005-4220	20050912
PRIORITY APPLN. INFO.:			DE 2003-10306250	A 20030214
			US 2003-488545P	P 20030718
			WO 2004-EP1342	W 20040213

OTHER SOURCE(S): MARPAT 141:225302
 GI



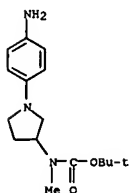
AB Title compds. [I; R1, R2 = H, alkyl, alkoxyalkyl, aryloxyalkyl, alkylcarbonyl, alkenylcarbonyl, etc.; R1R2N = atoms to form a 4-10 membered mono-, bi-, or spirocyclic (substituted) ring; R3 = H, alkyl; R4,

L13 ANSWER 32 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 R5 = H, alkyl, OH, alkoxy, alkylcarbonyloxy, alkylthio; R6-R9 = H, alkyl;
 R6R7, R8R9 = O; A, B, D, G = N, CR42; AB, DG = CR42; R42 = H, F, Cl, Br,
 iodo, CF3, NO2, cyano, OCF3, alkoxy, alkylthio, alkenyl, cycloalkyl,
 cycloalkoxy, cycloalkenyl, alkynyl, CO2H, etc.; R10 = H, alkyl, alkenyl,
 alkynyl; X = NR52, O, bond, C: C, C.tplbond.C, etc.; R52 = H, alkyl; E =
 (substituted) C3-14 carbocyclyl, heterocyclyl; K = bond, O, CH2O, S, SO,
 CO, C: C, C.tplbond.C, etc.; R11 = H, alkyl, alkoxyalkyl, alkenyl,

alkynyl,
 3-10 membered (substituted) mono-, bi-, tri- or spirocyclic ring; EKRI1 =
 (unsatd.) tricyclic ring; m, n = 0-2], were prepd. Thus,
 N-[1-(4-aminophenyl)pyrrolidin-3-yl]piperidine was treated with
 carbonyldiimidazole and then with 4-(4-chlorophenyl)piperidine to give
 4-(4-chlorophenyl)piperidine-1-carboxylic acid [4-[3-
 (acetylmethylamino)pyrrolidin-1-yl]phenyl]amide. The latter at 30 mg/kg
 orally in female NMRI mice reduced milk consumption by 64%.

IT 643087-83-6 748184-65-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of N-arylheterocycles as MCH antagonists)

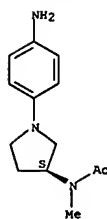
RN 643087-83-6 CAPLUS
 CN Carbamic acid, [1-(4-aminophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 748184-65-8 CAPLUS
 CN Acetamide, N-[(3S)-1-(4-aminophenyl)-3-pyrrolidinyl]-N-methyl- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.

L13 ANSWER 32 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

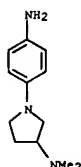


IT 686709-51-3P 748182-87-8P 748182-88-9P
 748182-89-0P 748182-90-3P 748182-91-4P
 748182-98-1P 748183-00-8P 748183-01-9P
 748183-03-1P 748183-04-2P 748183-05-3P
 748183-06-4P 748183-07-5P 748183-08-6P
 748183-09-7P 748183-10-0P 748183-11-1P
 748183-12-2P 748183-13-3P 748183-16-6P
 748183-17-7P 748183-20-2P 748183-21-3P
 748183-22-4P 748183-25-7P 748183-27-9P
 748183-28-0P 748183-29-1P 748183-30-4P
 748183-31-5P 748183-32-6P 748183-33-7P
 748183-50-8P 748183-52-0P 748183-57-5P
 748183-83-7P 748184-11-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

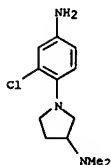
(preparation of N-arylheterocycles as MCH antagonists)

RN 686709-51-3 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-N,N-dimethyl- (9CI) (CA INDEX NAME)

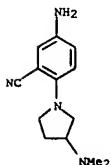


RN 748182-87-8 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-amino-2-chlorophenyl)-N,N-dimethyl- (9CI) (CA
 INDEX NAME)

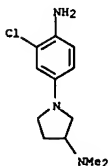
L13 ANSWER 32 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 748182-88-9 CAPLUS
 CN Benzonitrile, 5-amino-2-[3-(dimethylamino)-1-pyrrolidinyl]- (9CI) (CA
 INDEX NAME)

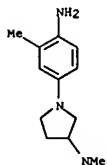


RN 748182-89-0 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-amino-3-chlorophenyl)-N,N-dimethyl- (9CI) (CA
 INDEX NAME)



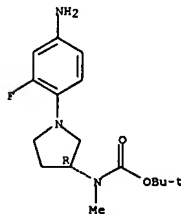
RN 748182-90-3 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-amino-3-methylphenyl)-N,N-dimethyl- (9CI) (CA
 INDEX NAME)

L13 ANSWER 32 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



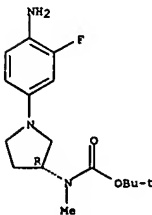
RN 748182-91-4 CAPLUS
 CN Carbamic acid, [(3R)-1-(4-amino-2-fluorophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

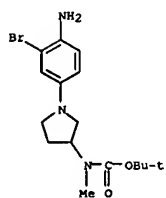


RN 748182-98-1 CAPLUS
 CN Carbamic acid, [(3R)-1-(4-amino-3-fluorophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

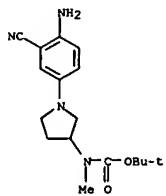
Absolute stereochemistry.



RN 748183-00-8 CAPLUS
 CN Carbamic acid, [1-(4-amino-3-bromophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



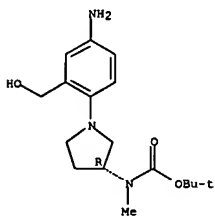
RN 748183-01-9 CAPLUS
 CN Carbamic acid, [1-(4-amino-3-cyanophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



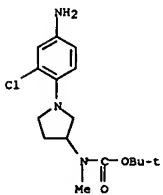
RN 748183-03-1 CAPLUS
 CN Carbamic acid, [1-(4-amino-2,3-difluorophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L13 ANSWER 32 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Carbamic acid, [(3R)-1-[4-amino-2-(hydroxymethyl)phenyl]-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

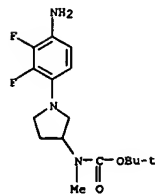
Absolute stereochemistry.



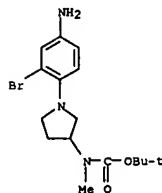
RN 748183-07-5 CAPLUS
 CN Carbamic acid, [1-(4-amino-2-chlorophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



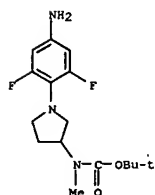
RN 748183-08-6 CAPLUS
 CN Carbamic acid, [1-(4-amino-2,5-difluorophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



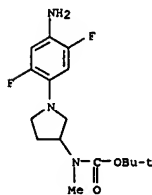
RN 748183-04-2 CAPLUS
 CN Carbamic acid, [1-(4-amino-2-bromophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



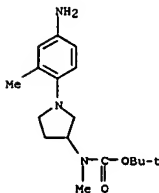
RN 748183-05-3 CAPLUS
 CN Carbamic acid, [1-(4-amino-2,6-difluorophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



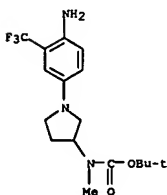
RN 748183-06-4 CAPLUS



RN 748183-09-7 CAPLUS
 CN Carbamic acid, [1-(4-amino-2-methylphenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

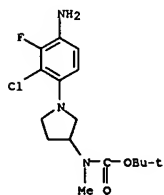


RN 748183-10-0 CAPLUS
 CN Carbamic acid, [1-(4-amino-3-(trifluoromethyl)phenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

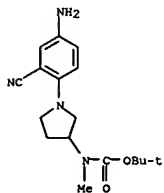


RN 748183-11-1 CAPLUS

L13 ANSWER 32 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN Carbamic acid,
 [1-(4-amino-2-chloro-3-fluorophenyl)-3-pyrrolidinyl]methyl-
 , 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



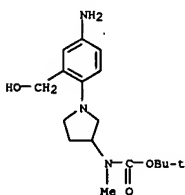
RN 748183-12-2 CAPLUS
 CN Carbamic acid, [1-(4-amino-2-cyanophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



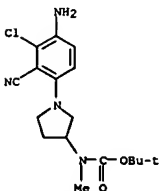
RN 748183-13-3 CAPLUS
 CN Carbamic acid,
 [1-(4-amino-5-chloro-2-methylphenyl)-3-pyrrolidinyl]methyl-
 , 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L13 ANSWER 32 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

RN 748183-20-2 CAPLUS
 CN Carbamic acid,
 [1-(4-amino-2-(hydroxymethyl)phenyl)-3-pyrrolidinyl]methyl-
 , 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

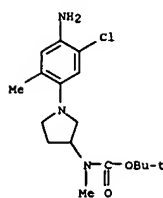


RN 748183-21-3 CAPLUS
 CN Carbamic acid,
 [1-(4-amino-3-chloro-2-cyanophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



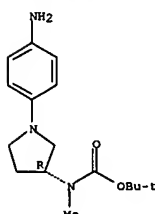
RN 748183-22-4 CAPLUS
 CN Carbamic acid, [1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L13 ANSWER 32 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

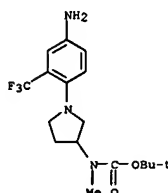


RN 748183-16-6 CAPLUS
 CN Carbamic acid, [(3R)-1-(4-aminophenyl)-3-pyrrolidinyl]methyl-,
 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

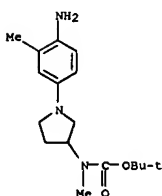
Absolute stereochemistry.



RN 748183-17-7 CAPLUS
 CN Carbamic acid, [1-(4-amino-2-(trifluoromethyl)phenyl)-3-pyrrolidinyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

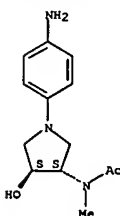


L13 ANSWER 32 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



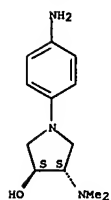
RN 748183-25-7 CAPLUS
 CN Acetamide,
 N-[(3R,4R)-1-(4-aminophenyl)-4-hydroxy-3-pyrrolidinyl]-N-methyl-,
 rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

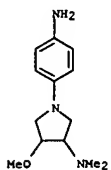


RN 748183-27-9 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-aminophenyl)-4-(dimethylamino)-, (3R,4R)-rel- (9CI)
 (CA INDEX NAME)

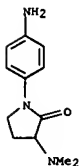
Relative stereochemistry.



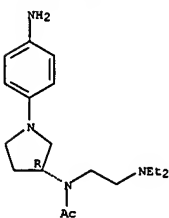
RN 748183-28-0 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-4-methoxy-N,N-dimethyl- (9CI) (CA INDEX NAME)



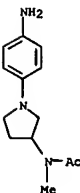
RN 748183-29-1 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)-3-(dimethylamino)- (9CI) (CA INDEX NAME)



RN 748183-30-4 CAPLUS
CN Benzenamine, 4-([3-(7-azabicyclo[2.2.1]hept-7-yl)-1-pyrrolidinyl]-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

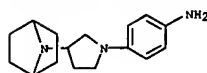


RN 748183-50-8 CAPLUS
INDEX Acetamide, N-([1-(4-aminophenyl)-3-pyrrolidinyl]-N-methyl- (9CI) (CA INDEX NAME)



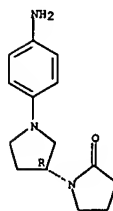
RN 748183-52-0 CAPLUS
CN Acetamide, N-([3R]-1-(4-aminophenyl)-3-pyrrolidinyl]-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



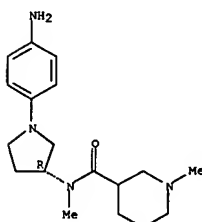
RN 748183-31-5 CAPLUS
CN [1,3'-Bipyrrolidin]-2-one, 1'-(4-aminophenyl)-, (3'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



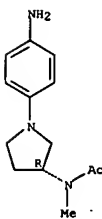
RN 748183-32-6 CAPLUS
CN 3-Piperidinecarboxamide, N-([3R]-1-(4-aminophenyl)-3-pyrrolidinyl)-N,1-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



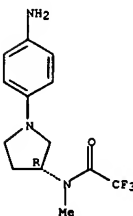
RN 748183-33-7 CAPLUS
CN Acetamide, N-([3R]-1-(4-aminophenyl)-3-pyrrolidinyl)-N-[2-(diethylamino)ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



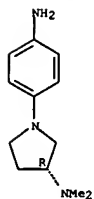
RN 748183-57-5 CAPLUS
CN Acetamide, N-([3R]-1-(4-aminophenyl)-3-pyrrolidinyl)-2,2,2-trifluoro-N-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

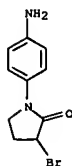


RN 748183-83-7 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-N,N-dimethyl-, (3R)- (9CI) (CA INDEX NAME)

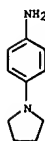
Absolute stereochemistry.



RN 748184-11-4 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)-3-bromo- (9CI) (CA INDEX NAME)



L13 ANSWER 33 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:687168 CAPLUS
DOCUMENT NUMBER: 141:331635
TITLE: Scope and utility of CsOH·H₂O in amination reactions via direct coupling of aryl halides and sec-alicyclic amines
AUTHOR(S): Varala, Ravi; Ramu, E.; Alam, M. Mujahid; Adapa, Srinivas R.
CORPORATE SOURCE: Inorganic Division, Indian Institute of Chemical Technology, Hyderabad, 500 007, India
SOURCE: Synlett (2004), (10), 1747-1750
CODEN: SYNLES; ISSN: 0936-5214
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:331635
AB Direct coupling of aryl halides with sec-alicyclic amines promoted by CsOH·H₂O in DMSO to the corresponding aryl substituted amines, with good to excellent yields, is reported herein. A variety of aryl halides and sec-alicyclic amines with a broad range of electronic diversity and functional groups was studied in this transformation, thus offering general applicability in organic synthesis.
IT RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of aryl-substituted amines by direct coupling of aryl halides and sec-alicyclic amines promoted by CsOH·H₂O)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

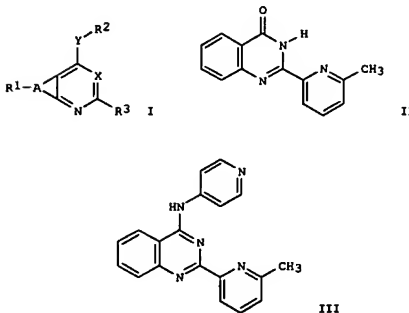
L13 ANSWER 34 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:633933 CAPLUS
DOCUMENT NUMBER: 141:174181
TITLE: Preparation of quinolines, quinazolines and thienopyrimidines as ALK-5 receptor ligands for the treatment of kidney fibrosis
INVENTOR(S): Dodic, Nerina; Gellibert, Francoise Jeanne; Hunter, Robert Neil, III
PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004065392	A1	20040805	WO 2004-EP650	20040126
WO 2004065392	C1	20041007		

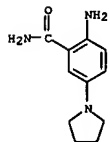
W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, A2, A2, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DM, EC, EC, EE, EE, EG, EG, ES, ES, FI, FI, GB, GB, GE, GE, GM, GM, HA, HA, HU, HU, ID, ID, IL, IL, IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, LC, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, NG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI

PRIORITY APPLN. INFO.: GB 2003-1719 A 20030124
GB 2003-8706 A 20030415
GB 2003-15519 A 20030702

OTHER SOURCE(S): MRPAT 141:174181
GI



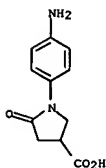
AB Condensed pyridines and pyrimidines (quinolines, quinazolines and thienopyrimidines) of formula I (X is N or CH; Y is -NR- or -NHCH₂-; R is alkyl; A is a fused 5-7 membered carbocyclic or N/O/S-heterocyclic ring with one or more R₁ groups; R₁ is H, halo, NO₂, alkyl, OR, CONR₄R₅, O(CH₂)_nNR₄R₅, (CH₂)_nNR₄R₅, or NR₄R₅; R₂ is certain N-containing heterocyclic rings; R₃ is pyridin-2-yl, Cl-6alkyl-pyridin-2-yl, -pyrrol-2-yl or -thiazol-2-yl; R₄ is H or alkyl; R₅ is alkyl; NR₄R₅ can be 3-7 membered (un)saturated N/O/S-heterocycle) and their pharmaceutically acceptable salts, solvates or derivs. were synthesized. Thus, 2-aminobenzamide was coupled with 6-methyl-2-pyridinecarboxylic acid in the presence of EDCI/HOBT followed by cyclocondensation mediated by NaOH to give quinazolinone II. Chlorination of II with POCl₃ and subsequent substitution of the resulting chloride with 4-aminopyridine afforded quinazolinone III. These compds. are inhibitors of the transforming growth factor TGF-β, especially of activin-like kinase ALK-5 receptor, and are used in the treatment and prevention of various disease states mediated by ALK-5 kinase mechanisms such as kidney fibrosis. All the final products showed ALK5 receptor modulator activity with IC₅₀ of 1-200 nM (16 nM for III) and TGF-β cellular activity with IC₅₀ of 0.001-10 μM (82 nM for III). The role of ALK5 inhibitors for the treatment of photoaging was also demonstrated exptl.
IT 314768-96-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of quinolines, quinazolines and thienopyrimidines as ALK-5 receptor ligands for the treatment of, e.g., kidney fibrosis)
RN 314768-96-2 CAPLUS
CN Benzanide, 2-amino-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

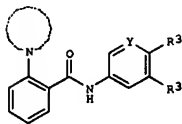
ACCESSION NUMBER: 2004:515967 CAPLUS
DOCUMENT NUMBER: 142:177060
TITLE: Products of reaction of p-phenylenediamine with unsaturated carboxylic acids and their biological activity
AUTHOR(S): Rutkauskas, K.; Jakiene, E.; Beresnevičius, Z. J.
CORPORATE SOURCE: Kauno Technol. Univ., Kaunas, Lithuania
SOURCE: Chemine Technologija (2003), (2), 68-73
CODEN: CTHEBZ; ISSN: 1392-1231
PUBLISHER: Technologija
DOCUMENT TYPE: Journal
LANGUAGE: Lithuanian
AB Reaction of 4-nitroaniline or 4-acetamidoaniline with unsatd. carboxylic acids, followed by reduction and hydrolysis, afforded N-(4-aminophenyl) amino acids. N-4-succinimido- and N-4-phthalimidophenyl derivs. of β -alanine, aspartic acid and 4-carboxy-2-pyrrolidinone were synthesized. The effect of the synthesized amino acid derivs. on the growth and productivity of sugar beets was studied. The sodium salts of N-4-succinimido- and N-4-phthalimidophenyl-4-carboxy-2-pyrrolidinone increased the viability of sugar beet seeds by 7-9%, energy of viability by 5-6%, and productivity by 13-20%.
IT 346637-44-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of amino acid aminophenyl derivs. as growth regulator for sugar beets)
RN 346637-44-3 CAPLUS
CN 3-Pyrrolidinecarboxylic acid, 1-(4-aminophenyl)-5-oxo- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 2004:512404 CAPLUS
DOCUMENT NUMBER: 141:65109
TITLE: Pharmaceutical compositions containing phenylcarboxamide derivatives having ApoB secretion-inhibiting and hypolipemic effects
INVENTOR(S): Yasunaka, Masayuki; Hazada, Naoyuki; Tsujishima, Shuichi; Nagata, Koichi; Takano, Mayumi
PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 33 pp.
CODEN: JKKXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004175738	A2	20040624	JP 2002-345076	20021128
PRIORITY APPLN. INFO.:			JP 2002-345076	20021128

OTHER SOURCE(S): MARPAT 141:65109
GI



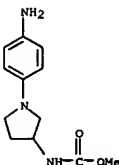
I



II

AB Claimed are compns. containing the title derivs. I [ring A = (un)substituted N-containing heterocyclic ring; Y = CH, N; R2 = II (m = 0-3; R6 = organic group), (CH2)pNHR7 (p = 1-6; R7 = organic group), CONH(CH2)qR8 [q = 1-6; R8 = (un)substituted heterocyclic ring; R3 = H, halo] or their pharmacol. acceptable salts. The compns. are useful for prevention and treatment of hyperlipidemia, atherosclerosis, apoplexy, thrombosis, diabetes, obesity, etc.
2-[4-[2-[4-(3-Phenylpropyl)piperidin-1-yl]benzoylamino]benzylamino]p yrimidine (III, preparation given) inhibited ApoB secretion by HepG2 cells at 1CS0 4.3 nM. III also decreased plasma triglycerides in rats fed olive oil.
IT 477981-70-7P, 1-(4-Aminophenyl)-3-methoxycarbonylaminopyrrolidine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

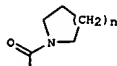
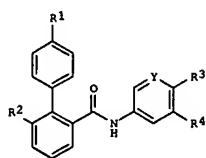
L13 ANSWER 36 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
(prepn. of phenylcarboxamide derivs. as ApoB secretion inhibitors and hypolipemics)
RN 477981-70-7 CAPLUS
CN Carbamic acid, [1-(4-aminophenyl)-3-pyrrolidinyl]-, methyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 37 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2004:510477 CAPLUS
 DOCUMENT NUMBER: 141:65108
 TITLE: Pharmaceutical compositions containing biphenylcarboxamide derivatives having ApoB secretion-inhibiting and hypolipemic effects
 INVENTOR(S): Yasunaka, Masayuki; Kusama, Mari; Kametani, Hiroshi; Tanaka, Keiko; Igarashi, Shigeki
 PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 59 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004175739	A2	20040624	JP 2002-345077	20021128
PRIORITY APPLN. INFO.:			JP 2002-345077	20021128

OTHER SOURCE(S): MARPAT 141:65108
 GI



II

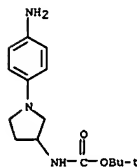


III

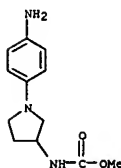
AB Claimed are compns. containing the title compds. I [R1 = lower (halo)alkyl, CONRSR6 (R5, R6 = alkyl, aryl-lower alkyl), II (n = 0-3); R2 = H, CO2H, lower alkoxy, carbonyl, lower alkoxy, lower alkoxy-lower alkoxy, morpholinyl-lower alkoxy, cyano, carbamoyl, mono- or di-(lower alkyl)carbamoyl; Y = CH, N; R3 = III (m = 0-3; R7 = organic group), (CH2)pNHR8 (p = 1-6; R8 = organic group; if R2 = H, then R8 = SO2Ph, CO2Me), CONH(CH2)qR9 (q = 1-6; R9 = (un)substituted heterocyclyl); R4 = H, halo] or their pharmacol. acceptable salts. The compns. are useful for prevention and treatment of hyperlipidemia, atherosclerosis, apoplexy, thrombosis, diabetes, obesity, etc. 1-[4-[2-(4-

Trifluoromethylphenyl)benzoylamino]phenyl]-3-methoxycarbonylaminopyrrolidin-

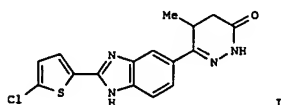
L13 ANSWER 37 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 ne (IV, prepn. given) inhibited ApoB secretion by HepG2 cells at IC50 1.7 nM. IV also decreased plasma triglycerides in rats fed olive oil.
 IT 330551-18-39 477981-70-7p, 1-[4-(4-aminophenyl)-3-methoxycarbonylaminopyrrolidin-3-yl]-N-(4-aminophenyl)-3-pyrrolidinyl-1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of biphenylcarboxamide derivs. as ApoB secretion inhibitors and hypolipemics)
 RN 330551-18-3 CAPLUS
 CN Carbamic acid, [1-[4-(4-aminophenyl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



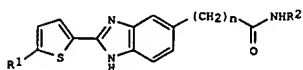
RN 477981-70-7 CAPLUS
 CN Carbamic acid, [1-[4-(4-aminophenyl)-3-pyrrolidinyl]-, methyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 38 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2004:498580 CAPLUS
 DOCUMENT NUMBER: 141:207121
 TITLE: Halothiophene benzimidazoles as P1 surrogates of inhibitors of blood coagulation factor Xa
 AUTHOR(S): Mederski, Werner W. R.; Dorasch, Dieter; Anzali, Soheila; Gleitz, Johannes; Cezanne, Bertram; Tsaklaidis, Christos
 CORPORATE SOURCE: Preclinical Pharmaceutical Research, Merck KGaA, Darmstadt, 64271, Germany
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2004), 14(14), 3763-3769
 CODEN: BMCLEB; ISSN: 0960-894X
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 141:207121
 GI



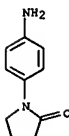
I



II

AB Neutral weak halothiophene benzimidazole inhibitors of the serine protease factor Xa were identified via screening of a compound library. The X-ray crystal structure of benzimidazole I bound to human FXa confirmed the S1 binding mode. Starting from I, a series of halothiophene benzimidazoles, e.g. II [n = 0-2; R1 = Br, Cl; R2 = 4-(3-oxomorpholin-4-yl)phenyl, 1-(4-pyridyl)-4-piperidinylmethyl, 4-(3-oxomorpholin-4-yl)-3-methylphenyl, etc.] was synthesized and investigated for their factor Xa inhibitory activity. This led to potent and selective acetal inhibitors against FXa such as II [n = 1; R1 = Br; R2 = 1-(4-pyridyl)-4-piperidinylmethyl] and II [n = 2; R1 = Cl; R2 = 4-(3-oxomorpholin-4-yl)-2-fluorophenyl].
 IT 13691-22-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (amidation of benzimidazolyl carboxylic acids; preparation of halothiophenyl benzimidazoles as P1 surrogates of inhibitors of blood coagulation factor Xa)
 RN 13691-22-0 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 38 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



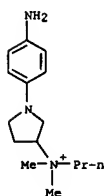
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L13 ANSWER 39 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:482172 CAPLUS
 DOCUMENT NUMBER: 141:42544
 TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a vitamin derivative
 INVENTOR(S): Cottier, Jean; Lagrange, Alain
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 52 pp.
 CODEN: EPKXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428517	A1	20040616	EP 2003-293142	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2846431	A1	20040618	FR 2002-15764	20021213
US 2004205904	A1	20041021	US 2003-735291	20031212
PRIORITY APPLN. INFO.:			FR 2002-15764	A 20021213
			US 2003-444634P	P 20030204

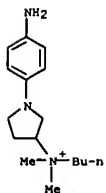
OTHER SOURCE(S): MARPAT 141:42544
 AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a vitamin derivative. Thus, a composition contained oleyl alc. 6, oleic acid 3, diglyceryl oleyl ether 6, hexaglyceryl oleyl ether 6, diethylaminopropyl laurylamino succinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, propylene glycol 20, dlinoleic acid 1.5, reducing agents 0.915, sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, niacinamide 0.2, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.
 IT 435275-61-9 435275-62-0 435275-65-3
 435275-66-4 435275-67-5 435275-68-6
 435275-69-7 435275-70-0 435275-72-2
 435275-73-3 435275-74-4 435275-82-4
 607355-12-4 607355-13-5 607355-16-8
 607355-17-9 607355-18-0 607355-19-1
 607355-20-4 607355-21-5 701975-01-1
 701975-04-4 701975-07-7 701975-08-8
 701975-09-9 701975-10-2 701975-11-3
 701975-12-4 701975-13-5 701975-14-6
 701975-15-7 701975-16-8 701975-17-9
 701975-18-0 701975-19-1 701975-20-4
 701975-21-5 701975-22-6 701975-23-7
 701975-24-8 701975-25-9 701975-26-0
 701975-27-1 701975-28-2 701975-29-3
 701975-30-6 701975-31-7 701975-32-8
 701975-33-9 701975-34-0 701975-35-1
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing compns. comprising phenylenediamine with pyrrolidine ring and vitamin derivative)
 RN 435275-61-9 CAPLUS

L13 ANSWER 39 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Br⁻

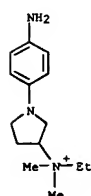
RN 435275-66-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)



● I⁻

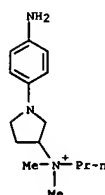
RN 435275-67-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide (9CI) (CA INDEX NAME)

L13 ANSWER 39 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)



● I⁻

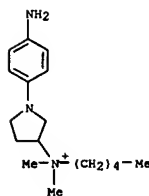
RN 435275-62-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide (9CI) (CA INDEX NAME)



● I⁻

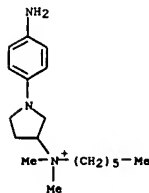
RN 435275-65-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide (9CI) (CA INDEX NAME)

L13 ANSWER 39 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



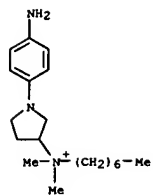
● I⁻

RN 435275-68-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

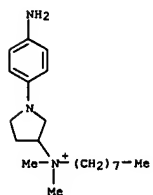


● I⁻

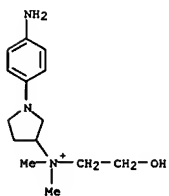
RN 435275-69-7 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-heptyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

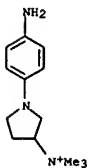
RN 435275-70-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

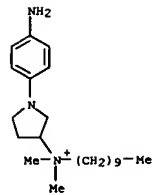
RN 435275-72-2 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-decyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

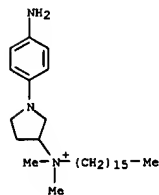
RN 435275-82-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

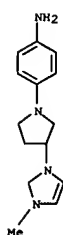
RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● I⁻

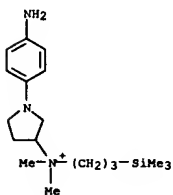
RN 435275-73-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-hexadecyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

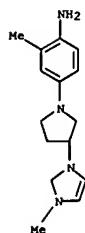
RN 435275-74-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-(2-hydroxyethyl)-, iodide (9CI) (CA INDEX NAME)

● Cl⁻

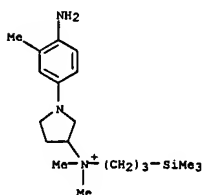
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-13-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-(3-(trimethylsilyl)propyl)-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

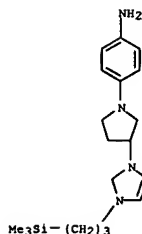
RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

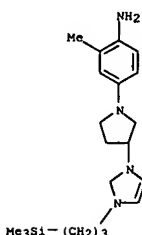
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

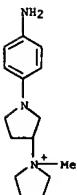
RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

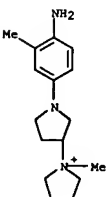
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

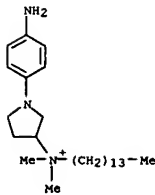
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

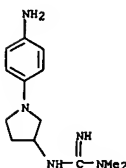
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

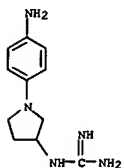
● Br⁻

RN 701975-04-4 CAPLUS
 CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



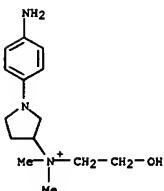
● HCl

RN 701975-07-7 CAPLUS
 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

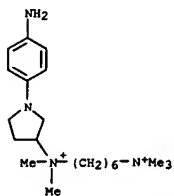


● HCl

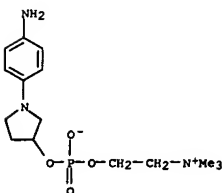
RN 701975-08-8 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

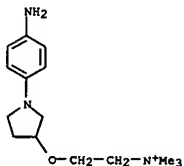
RN 701975-09-9 CAPLUS
CN 1,6-Hexanediaminium, N-[[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

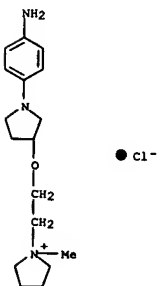
RN 701975-10-2 CAPLUS
CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



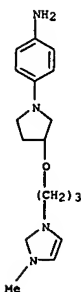
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CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

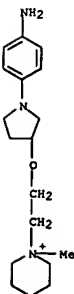
RN 701975-12-4 CAPLUS
CN Pyrrolidinium, 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

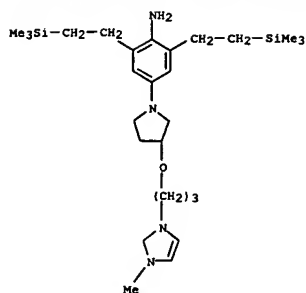
RN 701975-13-5 CAPLUS
CN 1H-Imidazolium, 1-[3-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

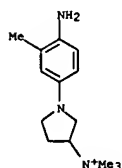
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-14-6 CAPLUS
CN Piperidinium, 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-15-7 CAPLUS
CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

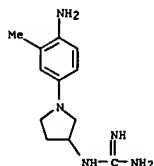


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-16-8 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-,
chloride
(9CI) (CA INDEX NAME)

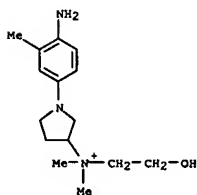


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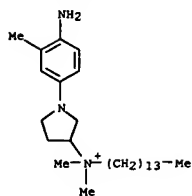
RN 701975-17-9 CAPLUS
CN 3-Pyrrolidinanium,
1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-
chloride (9CI) (CA INDEX NAME)



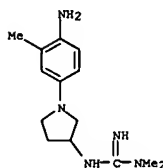
RN 701975-20-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



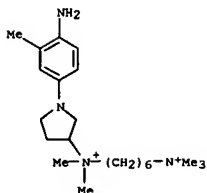
RN 701975-21-5 CAPLUS
CN 1,6-Hexanediaminium, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-
N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)



RN 701975-18-0 CAPLUS
CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidiny]-N,N-dimethyl-,
monohydrochloride (9CI) (CA INDEX NAME)



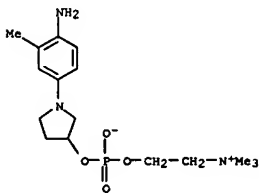
RN 701975-19-1 CAPLUS
CN Guanidine, [1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-,
monohydrochloride
(9CI) (CA INDEX NAME)



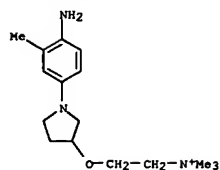
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RN      701975-22-6  CAPLUS
CN      Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-
          pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt
(9CI)
          (CA INDEX NAME)

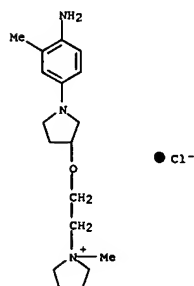
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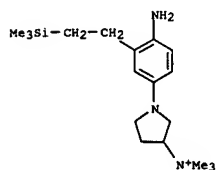
RN 701975-23-7 CAPLUS
CN Ethanaminium, 2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

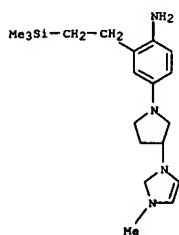
RN 701975-24-8 CAPLUS
 CN Pyrrolidinium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-
 1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

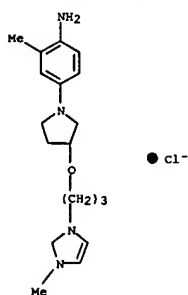
RN 701975-25-9 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

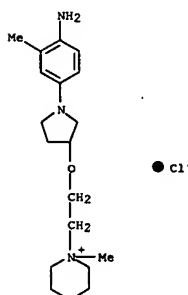
RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

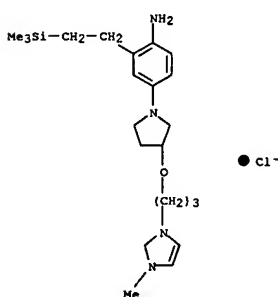
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-29-3 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

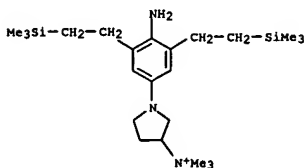
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-26-0 CAPLUS
 CN Piperidinium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-
 1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

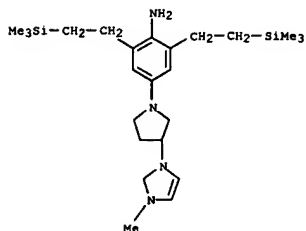
RN 701975-27-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

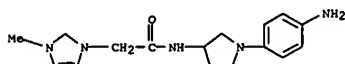
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-30-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

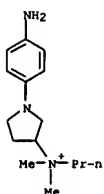
RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-32-8 CAPLUS
 CN 1H-Imidazolium,
 1-([1-(4-aminophenyl)-3-pyrrolidinyl]amino)-2-oxoethyl]-
 3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-33-9 CAPLUS
 CN 1H-Imidazolium,
 1-([1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]amino)-2-
 oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



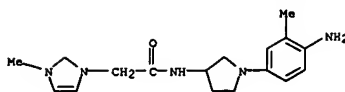
CM 2

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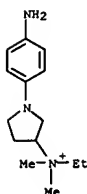
Me-O⁻SO₃⁻

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-34-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride
 (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-35-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl
 sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1
 CMF C15 H26 N3

ACCESSION NUMBER: 2004:482171 CAPLUS
 DOCUMENT NUMBER: 141:42543
 TITLE: Hair dyeing compositions comprising a tertiary
 p-phenylenediamine with a pyrrolidine ring and a
 polyol ester
 INVENTOR(S): Cotteret, Jean; Lagrange, Alain
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 49 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428516	A1	20040616	EP 2003-293141	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848443	A1	20040618	FR 2002-15776	20021213
US 2004211010	A1	20041028	US 2003-734612	20031212
PRIORITY APPL. INFO.:			FR 2002-15776	A 20021213
			US 2003-444625P	P 20030204

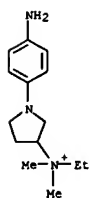
OTHER SOURCE(S): MARPAT 141:42543

AB Hair dyeing compns. comprising a tertiary p-phenylenediamine with a
 pyrrolidine ring and a polyol ester. Thus, a composition contained
 oleyl alc.

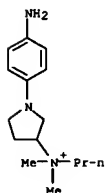
4, oleic acid 5, diglycerol oleyl ether 4, tetraglycerol oleyl ether 3.6,
 ethoxylated amino acid 8, ethoxylated oleylamine 4, ethoxylated decyl
 ether 2.7, PEG oleate 2.5., adipic acid 1.3, reducing agents 0.63,
 sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-
 yl]trimethylammonium chloride 0.8, 5-N(β-hydroxyethyl)amino-2-
 methylphenol 0.4, perfume qs, ammonia 10, and water qs to 100 g. The
 above composition was mixed with 6% H2O2 and applied onto hair.

IT 435275-61-9 435275-62-0 435275-63-3
 435275-66-4 435275-67-5 435275-68-6
 435275-69-7 435275-70-0 435275-72-2
 435275-73-3 435275-74-4 435275-82-4
 607355-12-4 607355-13-5 607355-16-8
 607355-17-9 607355-18-0 607355-19-1
 607355-20-4 607355-21-5 701975-01-1
 701975-04-4 701975-07-7 701975-08-8
 701975-09-9 701975-10-2 701975-11-3
 701975-12-4 701975-13-5 701975-14-6
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 701975-21-5 701975-22-6 701975-23-7
 701975-24-8 701975-25-9 701975-26-0
 701975-27-1 701975-28-2 701975-29-3
 701975-30-6 701975-31-7 701975-32-8
 701975-33-9 701975-34-0 701975-35-1
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing compns. comprising cationic phenylenediamine with
 pyrrolidine ring and polyol ester)

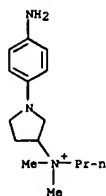
RN 435275-61-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide
 (9CI)
 (CA INDEX NAME)

● I⁻

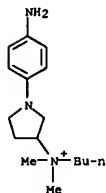
RN 435275-62-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

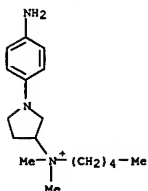
RN 435275-65-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide
 (9CI) (CA INDEX NAME)

● Br⁻

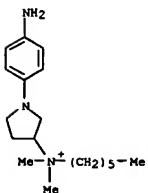
RN 435275-66-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

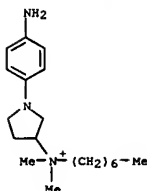
RN 435275-67-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

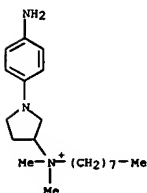
RN 435275-68-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

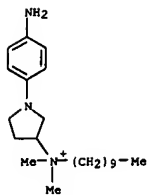
RN 435275-69-7 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-heptyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

RN 435275-70-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl-, iodide
 (9CI) (CA INDEX NAME)

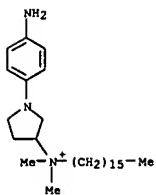
● I⁻

RN 435275-72-2 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-decyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)



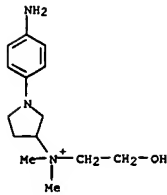
● I⁻

RN 435275-73-3 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)



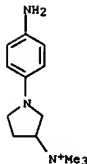
● I⁻

RN 435275-74-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)



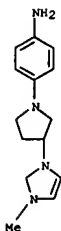
● I⁻

RN 435275-82-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



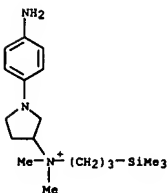
● Cl⁻

RN 607355-12-4 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



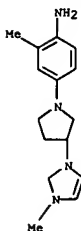
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-13-5 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)



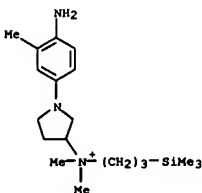
● Cl⁻

RN 607355-16-8 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



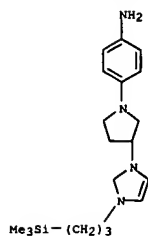
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-17-9 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

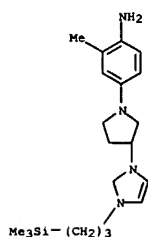


● Cl⁻

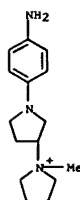
RN 607355-18-0 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

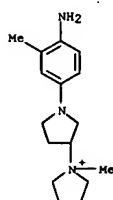
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

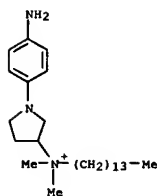
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

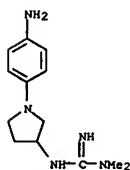
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

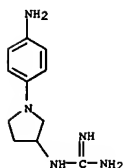
● Br⁻

RN 701975-04-4 CAPLUS
 CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



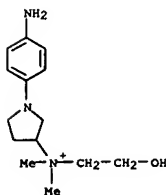
● HCl

RN 701975-07-7 CAPLUS
 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

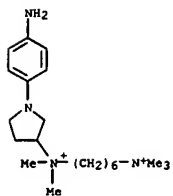


● HCl

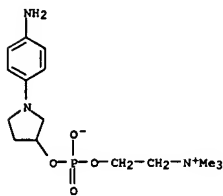
RN 701975-08-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

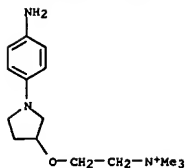
RN 701975-09-9 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

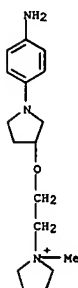
RN 701975-10-2 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]
 oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



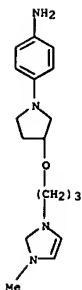
RN 701975-11-3 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

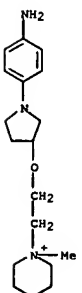
RN 701975-12-4 CAPLUS
 CN Pyrrolidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

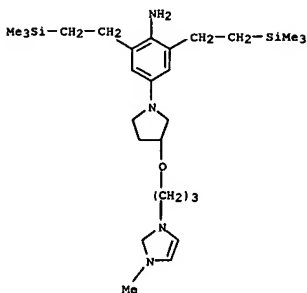
RN 701975-13-5 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

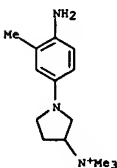
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-14-6 CAPLUS
 CN Piperidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

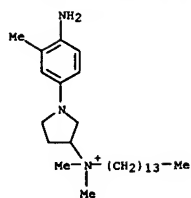
RN 701975-15-7 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

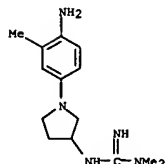
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-,
 chloride (9CI) (CA INDEX NAME)

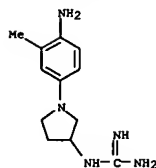
● Cl⁻

RN 701975-18-0 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



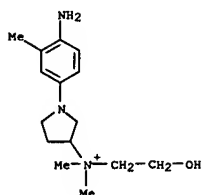
● HCl

RN 701975-19-1 CAPLUS
 CN Guanidine, [1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

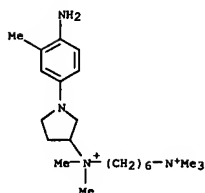


● HCl

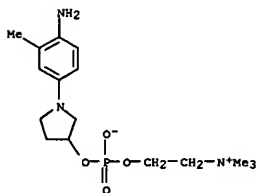
RN 701975-20-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

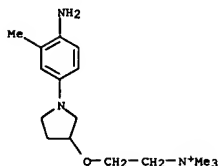
RN 701975-21-5 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

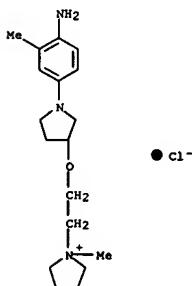
RN 701975-22-6 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



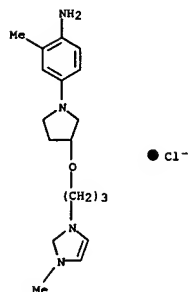
RN 701975-23-7 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

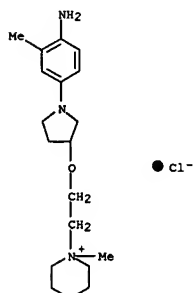
RN 701975-24-8 CAPLUS
 CN Pyrrolidinium, 1-[2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

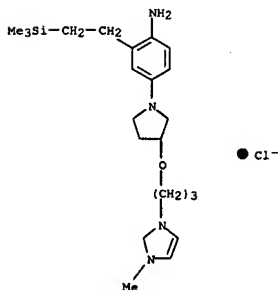
RN 701975-25-9 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



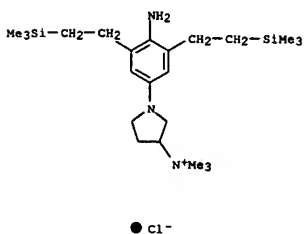
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-26-0 CAPLUS
 CN Piperidinium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-
 1-methyl-, chloride (9CI) (CA INDEX NAME)



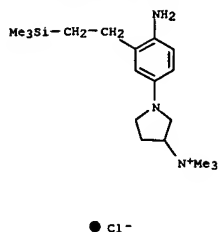
RN 701975-27-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



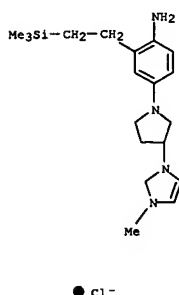
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-30-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-
 N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



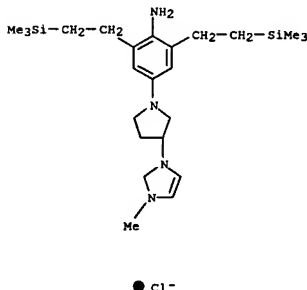
RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



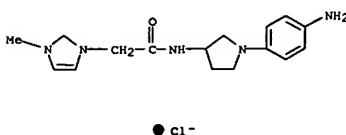
RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



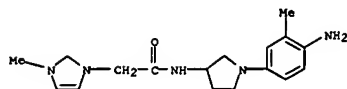
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-29-3 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-32-8 CAPLUS
 CN 1H-Imidazolium,
 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-
 3-methyl-, chloride (9CI) (CA INDEX NAME)



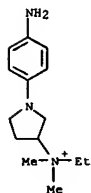
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-33-9 CAPLUS
 CN 1H-Imidazolium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 701975-34-0 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-35-1 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1

CMF C15 H26 N3

ACCESSION NUMBER: 2004:482170 CAPLUS

DOCUMENT NUMBER: 141:42542

TITLE: Hair dyeing compositions comprising a tertiary cationic p-phenylenediamine with a pyrrolidine ring and a surfactant

INVENTOR(S): Cotteret, Jean/ Lagrange, Alain

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 53 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428515	A1	20040616	EP 2003-293140	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848437	A1	20040618	FR 2002-15770	20021213
US 2004216243	A1	20041104	US 2003-735262	20031212
PRIORITY APPLN. INFO.:			FR 2002-15770	A 20021213
			US 2003-444654P	P 20030204

OTHER SOURCE(S):

MARPAT 141:42542

AB Hair dyeing comps. comprise a tertiary cationic p-phenylenediamine with a

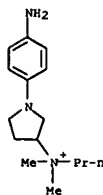
pyrrolidine ring and a surfactant such as a glyceryl ether. Thus, a composition contained oleyl alc. 6, oleic acid 3, diglyceryl oleyl ether

6, hexaglyceryl oleyl ether 6, diethylaminopropyl laurylamino succinamate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, resorcinol 0.085, (1-(4-aminophenyl)pyrrolidin-3-yl)trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.

IT 435275-61-9 435275-62-0 435275-63-3
 435275-64-4 435275-65-5 435275-66-6
 435275-67-7 435275-68-8 435275-69-9
 435275-70-0 435275-71-1 435275-72-2
 435275-73-3 435275-74-4 435275-75-5
 607355-12-4 607355-13-5 607355-14-6
 607355-15-6 607355-16-7 607355-17-8
 607355-18-9 607355-19-0 607355-20-1
 607355-21-2 607355-22-3 607355-23-4
 607355-24-5 607355-25-6 607355-26-7
 607355-27-8 607355-28-9 607355-29-0
 607355-30-1 607355-31-2 607355-32-3
 607355-33-4 607355-34-5 607355-35-6
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing comps. comprising cationic phenylenediamine with pyrrolidine ring and surfactant)

RN 435275-61-9 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI)



CM 2

CRN 21228-90-0

CMF C H3 O4 S

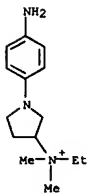
Me-O-SO₃⁻

REFERENCE COUNT: 5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

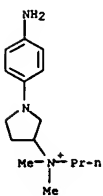
FORMAT

(CA INDEX NAME)

● I⁻

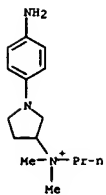
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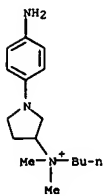
● I⁻

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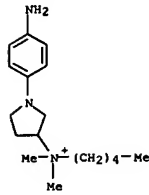
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

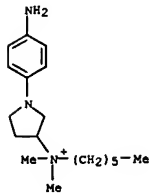
RN 435275-66-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-butyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

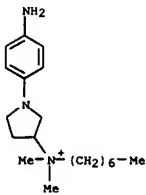
RN 435275-67-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

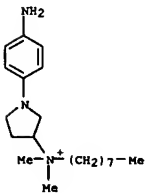
RN 435275-68-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-hexyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

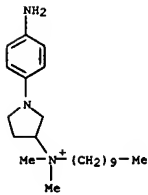
RN 435275-69-7 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-heptyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

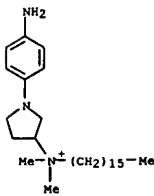
RN 435275-70-0 CAPLUS
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 (9CI) (CA INDEX NAME)

● I⁻

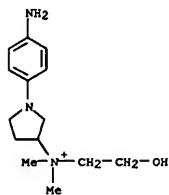
RN 435275-72-2 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-decyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

RN 435275-73-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-hexadecyl-, iodide
 (9CI) (CA INDEX NAME)

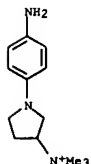
● I⁻

RN 435275-74-4 CAPLUS
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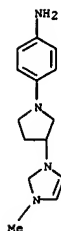
● I⁻

RN 435275-82-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI)
(CA INDEX NAME)



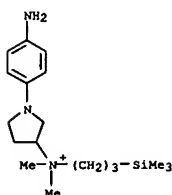
● Cl⁻

RN 607355-12-4 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI)
(CA INDEX NAME)



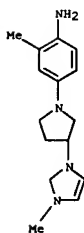
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-13-5 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI)
(CA INDEX NAME)



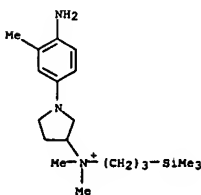
● Cl⁻

RN 607355-16-8 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI)
(CA INDEX NAME)



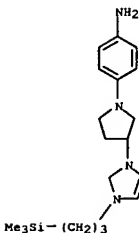
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-17-9 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI)
(CA INDEX NAME)



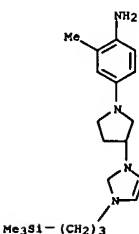
● Cl⁻

RN 607355-18-0 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI)
(CA INDEX NAME)



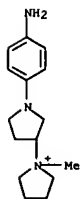
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-19-1 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI)
(CA INDEX NAME)

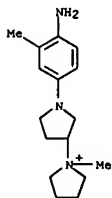


● Cl⁻

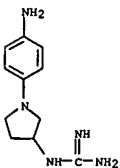
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-20-4 CAPLUS
CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI)
(CA INDEX NAME)

● Cl⁻

RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

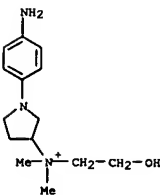
● Cl⁻

RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

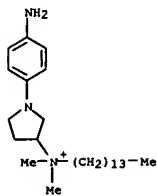


● HCl

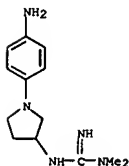
RN 701975-08-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-09-9 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

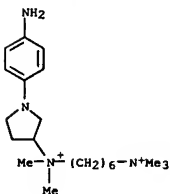
● Br⁻

RN 701975-04-4 CAPLUS
 CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

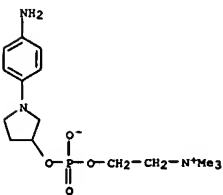


● HCl

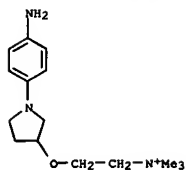
RN 701975-07-7 CAPLUS
 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

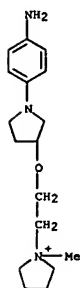
RN 701975-10-2 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



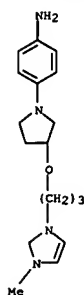
RN 701975-11-3 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-12-4 CAPLUS
 CN Pyrrolidinium,
 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

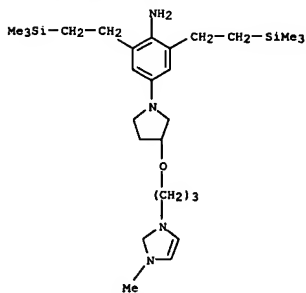
RN 701975-13-5 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

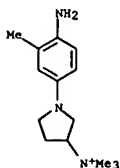
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-14-6 CAPLUS
 CN Piperidinium,
 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

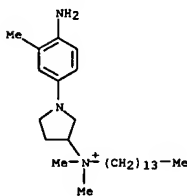
RN 701975-15-7 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

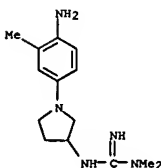
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium,
 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-,
 chloride (9CI) (CA INDEX NAME)

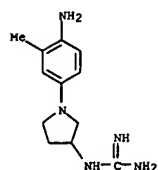
● Cl⁻

RN 701975-18-0 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl-,
 monohydrochloride (9CI) (CA INDEX NAME)



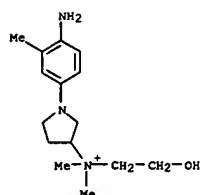
● HCl

RN 701975-19-1 CAPLUS
 CN Guanidine, [1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-,
 monohydrochloride (9CI) (CA INDEX NAME)

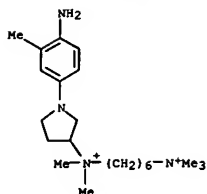


● HCl

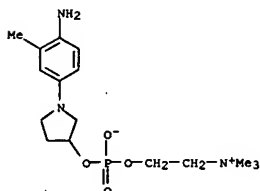
RN 701975-20-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

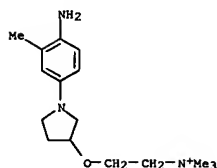
RN 701975-21-5 CAPLUS
CN 1,6-Hexanediaminium, N-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

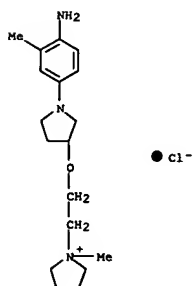
RN 701975-22-6 CAPLUS
CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



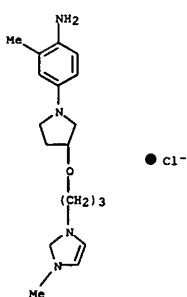
RN 701975-23-7 CAPLUS
CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

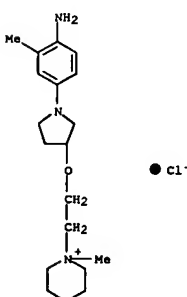
RN 701975-24-8 CAPLUS
CN Pyrrolidinium, 1-[2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

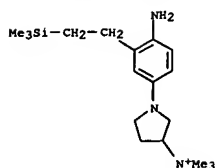
RN 701975-25-9 CAPLUS
CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

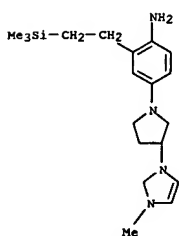
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-26-0 CAPLUS
CN Piperidinium, 1-[2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

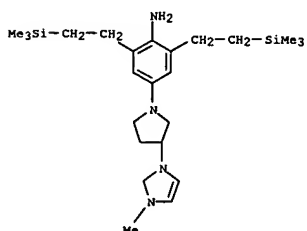
RN 701975-27-1 CAPLUS
CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

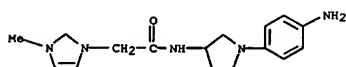
RN 701975-26-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

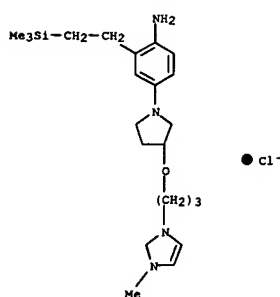
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-29-3 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

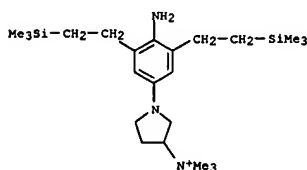
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-32-8 CAPLUS
 CN 1H-Imidazolium, 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

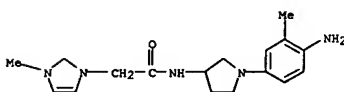
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-33-9 CAPLUS
 CN 1H-Imidazolium, 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

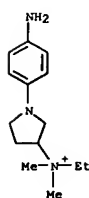
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-30-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

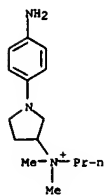
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-34-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-35-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1
 CMF C15 H26 N3



CM 2

CRN 21228-90-0
CMF C H3 O4 SMe-O-SO₃⁻

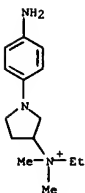
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 42 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:482169 CAPLUS
DOCUMENT NUMBER: 141:42541
TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a benzomorpholine coupler
INVENTOR(S): Cottard, Francois; Rondeau, Christine
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: Eur. Pat. Appl., 53 pp.
CODEN: EPKXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

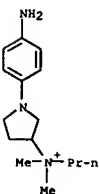
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428514	A1	20040616	EP 2003-293139	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848441	A1	20040618	FR 2002-15774	20021213
FR 2848441	B1	20050304		
US 2004205903	A1	20041021	US 2003-735288	20031212
PRIORITY APPLN. INFO.:			FR 2002-15774	A 20021213
			US 2003-450331P	P 20030228

AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a benzomorpholine coupler. Thus, a composition contained
oleyl alc. 6, oleic acid 3, polyglyceryl oleyl ether 12, diethylaminopropyl laurylaminosuccinamate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, propylene glycol 20, reducing agents 0.915, sequestrants 1, p-aminophenol 0.2, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 0.3, N,N-(2-Hydroxyethyl)-p-phenylenediamine sulfate 0.3, 6-hydroxybenzomorpholine 0.45, perfume qs, ammonia 10.2, and water qs to 100 g.

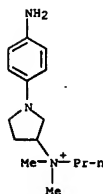
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607355-12-4 607355-13-5 607355-16-8
607355-17-9 607355-18-0 607355-19-1
607355-20-4 607355-21-5 701975-01-1
701975-04-4 701975-07-7 701975-08-8
701975-09-9 701975-10-2 701975-11-3
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701975-33-9 701975-34-0 701975-35-1
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyeing compns. comprising cationic phenylenediamine with pyrrolidine ring and benzomorpholine coupler)
RN 435275-61-9 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI)

● I⁻

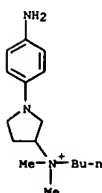
RN 435275-62-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

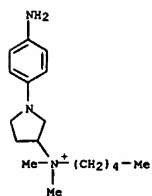
RN 435275-65-3 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

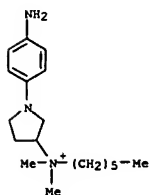
RN 435275-66-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

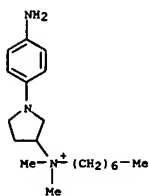
RN 435275-67-5 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

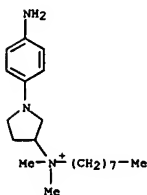
RN 435275-68-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

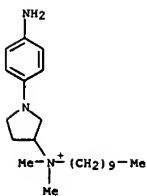
RN 435275-69-7 CAPLUS
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● I⁻

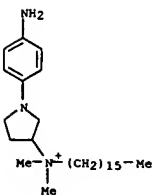
RN 435275-70-0 CAPLUS
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● I⁻

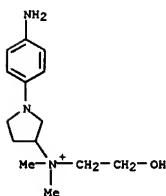
RN 435275-72-2 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-decyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

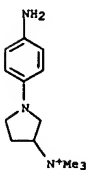
RN 435275-73-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexadecyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

RN 435275-74-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

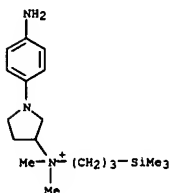
RN 435275-82-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

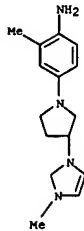
RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

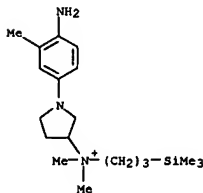
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-13-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

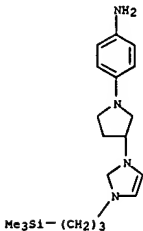
RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

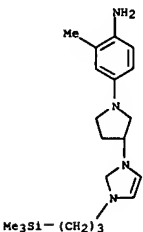
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

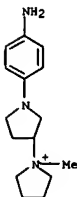
RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

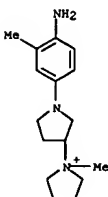
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

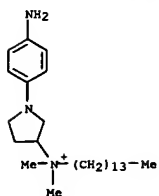
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

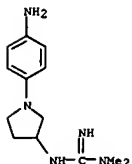
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

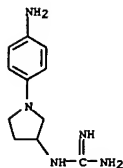
● Br⁻

RN 701975-04-4 CAPLUS
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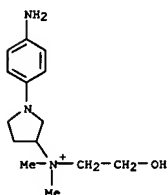
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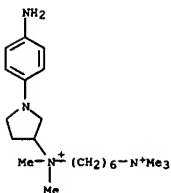


● HCl

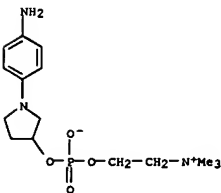
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 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

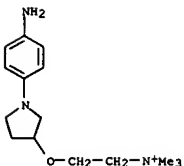
RN 701975-09-9 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

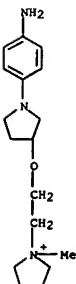
RN 701975-10-2 CAPLUS
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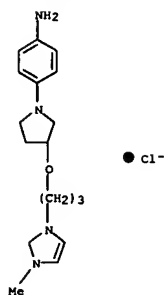
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● Cl⁻

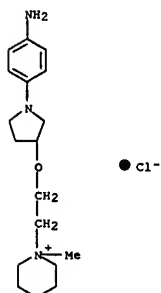
RN 701975-12-4 CAPLUS
 CN Pyrrolidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

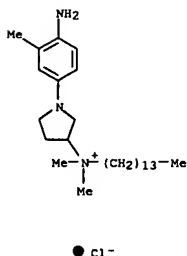
RN 701975-13-5 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



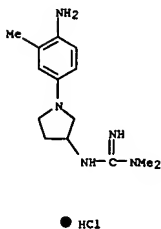
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-14-6 CAPLUS
 CN Piperidinium,
 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-
 , chloride (9CI) (CA INDEX NAME)



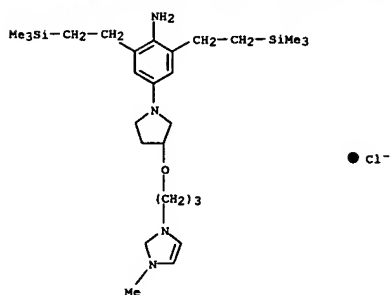
RN 701975-15-7 CAPLUS
 CN 1H-Imidazolium,
 1-[3-[[1-(4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



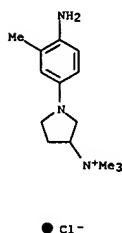
RN 701975-18-0 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



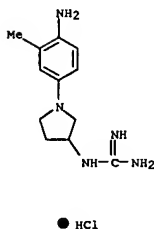
RN 701975-19-1 CAPLUS
 CN Guanidine, [1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



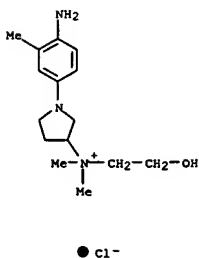
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



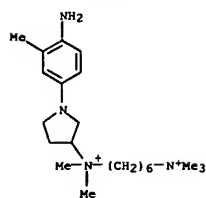
RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium,
 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)



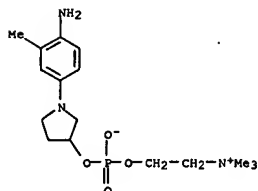
RN 701975-20-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



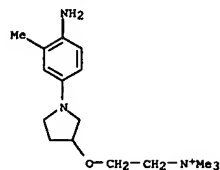
RN 701975-21-5 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

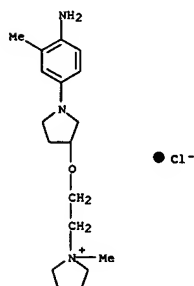
RN 701975-22-6 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



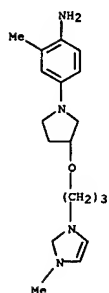
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● Cl⁻

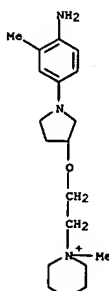
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● Cl⁻

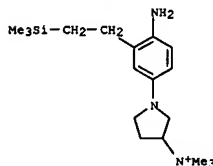
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● Cl⁻

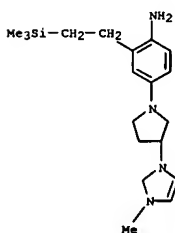
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 RN 701975-26-0 CAPLUS
 CN Piperidinium, 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

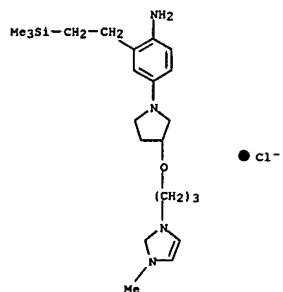
RN 701975-27-1 CAPLUS
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● Cl⁻

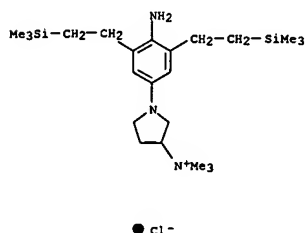
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● Cl⁻

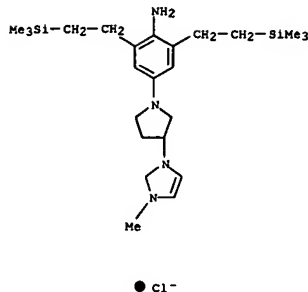
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 RN 701975-29-3 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-[[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



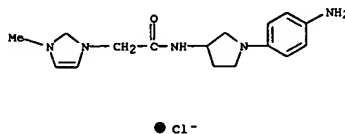
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-30-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



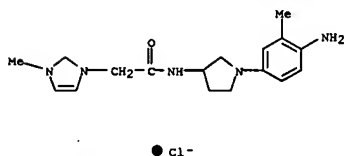
RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



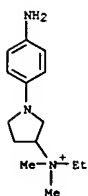
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-32-8 CAPLUS
 CN 1H-Imidazolium, 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-33-9 CAPLUS
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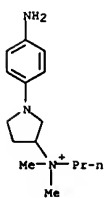
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-34-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



RN 701975-35-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1
 CMF C15 H26 N3



CM 2

CRN 21228-90-0
 CMF C H3 O4 S

Me-O-SO₃⁻

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

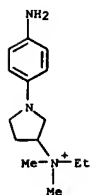
L13 ANSWER 43 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:482168 CAPLUS
DOCUMENT NUMBER: 141:42540
TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a opacifying or pearlescent agent
INVENTOR(S): Cottaret, Jean; Lagrange, Alain
PATENT ASSIGNEE(S): L'oreal, Fr.
SOURCE: Eur. Pat. Appl., 50 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428513	A1	20040616	EP 2003-293138	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848440	A1	20040618	FR 2002-15773	20021213
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PRIORITY APPLN. INFO.: FR 2002-15773 A 20021213				
US 2003-450353P P 20030228				

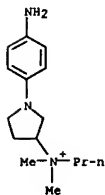
OTHER SOURCE(S): MARPAT 141:42540
AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a opacifying or pearlescent agent. Thus, a composition contained Nafel 20-22 3, Marlupal-2022/300 1, ethoxylated stearyl alc. 6.25, oleic acid 2.6, carbopol-980 0.6, Aculyne-44 4, Flonac FS20C 0.25, coco fatty acid monoisopropanolamide 3, cationic polymer 4, propylene glycol 6, sodium metasilicate 0.71, EDTA 0.2, tert-butylhydroquinone 0.3, 3-[1-(4-aminophenyl)pyrrolidin-3-yl]-1-methyl-3H-1-imidazolium chloride 0.8, 5-N(β-hydroxyethylamino-2-methylphenol) 0.4, monoethanolamine 1, perfume qs, ammonia 11, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.
IT 435275-61-9 435275-62-0 435275-65-3
435275-66-4 435275-67-5 435275-68-6
435275-69-7 435275-70-0 435275-72-2
435275-73-3 435275-74-4 435275-82-4
607355-12-4 607355-13-5 607355-16-8
607355-17-9 607355-18-0 607355-19-1
607355-20-4 607355-21-5 701975-01-1
701975-04-4 701975-07-7 701975-08-8
701975-09-9 701975-10-2 701975-11-3
701975-12-4 701975-13-5 701975-14-6
701975-15-7 701975-16-8 701975-17-9
701975-18-0 701975-19-1 701975-20-4
701975-21-5 701975-22-6 701975-23-7
701975-24-8 701975-25-9 701975-26-0
701975-27-1 701975-28-2 701975-29-3
701975-30-6 701975-31-7 701975-32-8
701975-33-9 701975-34-0 701975-35-1
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyeing compns. comprising phenylenediamine with pyrrolidine ring and opacifying or pearlescent agents)
RN 435275-61-9 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI)

L13 ANSWER 43 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● I⁻

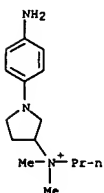
RN 435275-62-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide (9CI) (CA INDEX NAME)



● I⁻

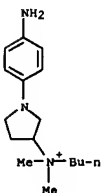
RN 435275-65-3 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide (9CI) (CA INDEX NAME)

L13 ANSWER 43 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



● Br⁻

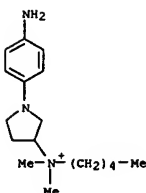
RN 435275-66-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide (9CI)
(CA INDEX NAME)



● I⁻

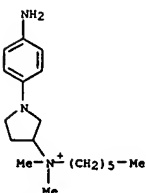
RN 435275-67-5 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide (9CI) (CA INDEX NAME)

L13 ANSWER 43 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



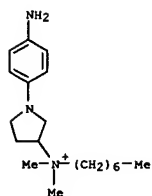
● I⁻

RN 435275-68-6 CAPLUS
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(CA INDEX NAME)

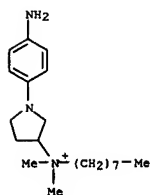


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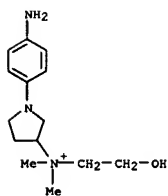
RN 435275-69-7 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-heptyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

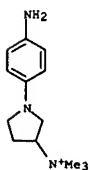
RN 435275-70-0 CAPLUS
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 (9CI) (CA INDEX NAME)

● I⁻

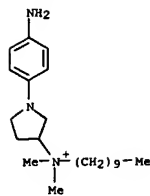
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 (9CI) (CA INDEX NAME)

● I⁻

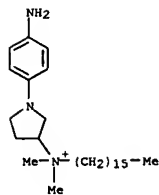
RN 435275-82-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI)
 (CA INDEX NAME)

● Cl⁻

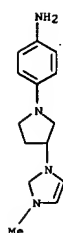
RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride
 (9CI) (CA INDEX NAME)

● I⁻

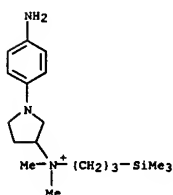
RN 435275-73-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexadecyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

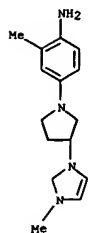
RN 435275-74-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-,
 iodide (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-13-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

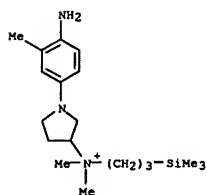
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RN 607355-16-8 CAPLUS
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 chloride (9CI) (CA INDEX NAME)



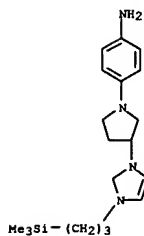
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)



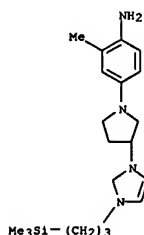
● Cl⁻

RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)



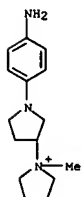
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)



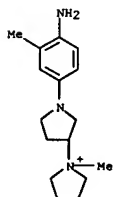
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
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 CN 1,3'-Bipyrrolidininium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)



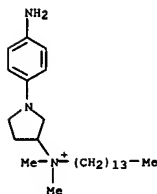
● Cl⁻

RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)



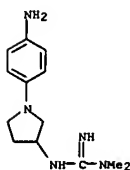
● Cl⁻

RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)



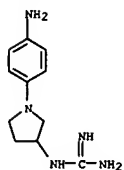
● Br⁻

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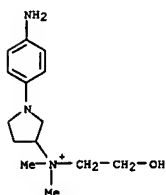
● HCl

RN 701975-07-7 CAPLUS
 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

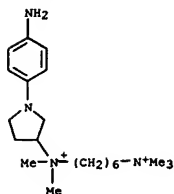


● HCl

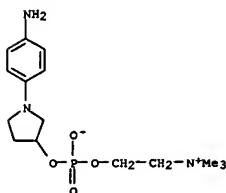
RN 701975-08-8 CAPLUS
CN 3-Pyrrolidinaminium, 1-[(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

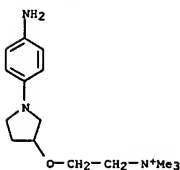
RN 701975-09-9 CAPLUS
CN 1,6-Hexanediaminium, N-[[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

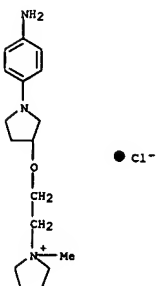
RN 701975-10-2 CAPLUS
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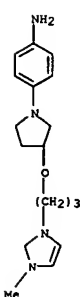
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● Cl⁻

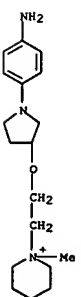
RN 701975-12-4 CAPLUS
CN Pyrrolidininium, 1-[[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

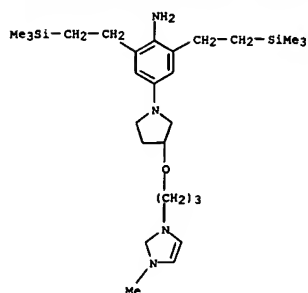
RN 701975-13-5 CAPLUS
CN 1H-Imidazolium, 1-[[3-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

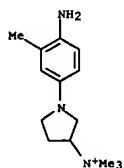
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-14-6 CAPLUS
CN Piperidininium, 1-[[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-15-7 CAPLUS
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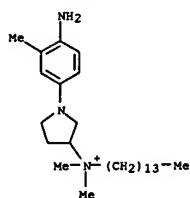


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



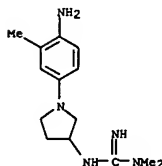
● Cl⁻

RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)



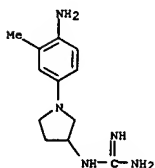
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RN 701975-18-0 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



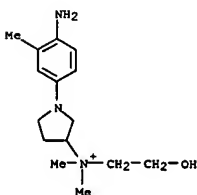
● HCl

RN 701975-19-1 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



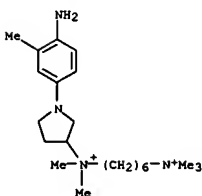
● HCl

RN 701975-20-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



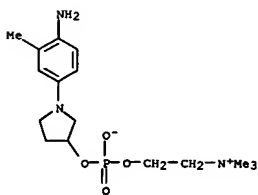
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RN 701975-21-5 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

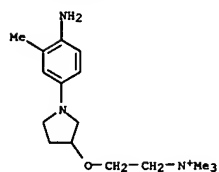


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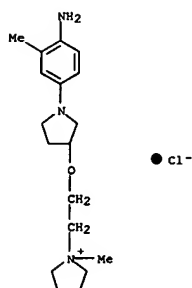
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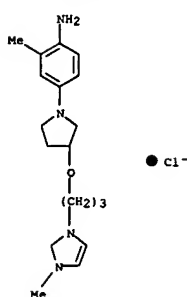
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● Cl⁻

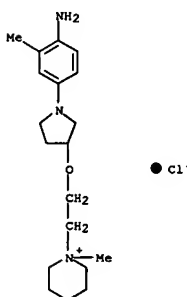
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● Cl⁻

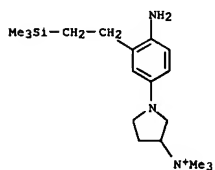
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● Cl⁻

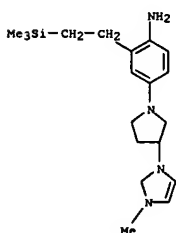
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-26-0 CAPLUS
 CN Piperidinium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-
 1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

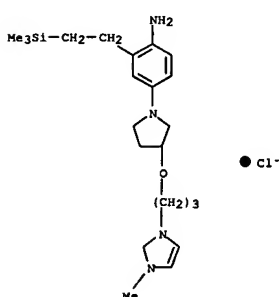
RN 701975-27-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-
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● Cl⁻

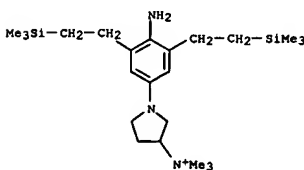
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● Cl⁻

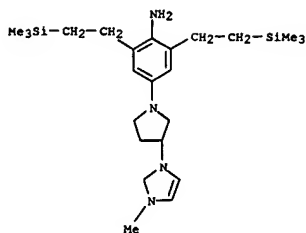
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● Cl⁻

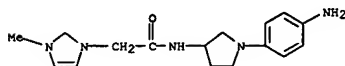
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-30-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-
 N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

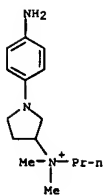
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 pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-32-8 CAPLUS
 CN 1H-Imidazolium,
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 3-methyl-], chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-33-9 CAPLUS
 CN 1H-Imidazolium,
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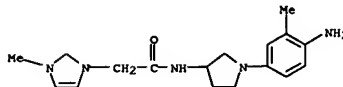


CM 2

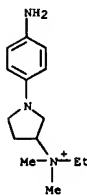
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REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-34-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride
 (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-35-1 CAPLUS
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 sulfate (9CI) (CA INDEX NAME)

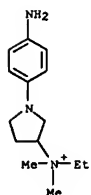
CM 1

CRN 435275-63-1
 CHF C15 H26 N3

L13 ANSWER 44 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:482167 CAPLUS
 DOCUMENT NUMBER: 141:42539
 TITLE: Hair dyeing compositions comprising a tertiary cationic p-phenylenediamine with a pyrrolidine ring and a p-aminophenol
 INVENTOR(S): Cotteret, Jean; Lagrange, Alain
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 51 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

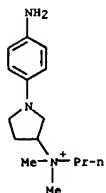
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428512	A1	20040616	EP 2003-293137	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848436	A1	20040618	FR 2002-15769	20021213
US 2004216245	A1	20041104	US 2003-735284	20031212
PRIORITY APPLN. INFO.:			FR 2002-15769	A 20021213
			US 2003-451255P	P 20030304

OTHER SOURCE(S): MARPAT 141:42539
 AB Hair dyeing compns. comprise a tertiary cationic p-phenylenediamine with a pyrrolidine ring and a p-aminophenol. Thus, a composition contained oleyl alc.
 6, oleic acid 3, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammoniosuccinamate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, a p-aminophenol 0.2, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 0.8, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.
 IT 435275-61-9 435275-62-0 435275-63-3
 435275-64-4 435275-67-5 435275-68-6
 435275-69-7 435275-70-0 435275-72-2
 435275-73-3 435275-74-4 435275-82-4
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 701975-12-4 701975-13-5 701975-14-6
 701975-15-7 701975-16-8 701975-17-9
 701975-18-0 701975-19-1 701975-20-4
 701975-21-5 701975-22-6 701975-23-7
 701975-24-8 701975-25-9 701975-26-0
 701975-27-1 701975-28-2 701975-29-3
 701975-30-6 701975-31-7 701975-32-8
 701975-33-9 701975-34-0 701975-35-1
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing compns. comprising cationic phenylenediamine with pyrrolidine ring and aminophenol)
 RN 435275-61-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI)



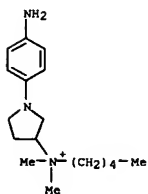
● I⁻

RN 435275-62-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide
(9CI) (CA INDEX NAME)



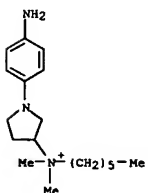
● I⁻

RN 435275-65-3 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide
(9CI) (CA INDEX NAME)



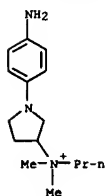
● I⁻

RN 435275-68-6 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-hexyl-, iodide
(9CI) (CA INDEX NAME)



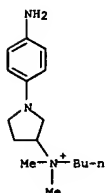
● I⁻

RN 435275-69-7 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-heptyl-, iodide
(9CI) (CA INDEX NAME)



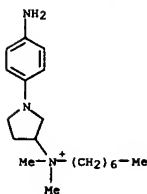
● Br⁻

RN 435275-66-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide
(9CI) (CA INDEX NAME)



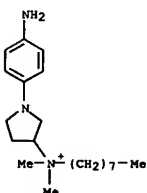
● I⁻

RN 435275-67-5 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide
(9CI) (CA INDEX NAME)



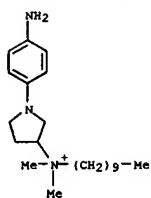
● I⁻

RN 435275-70-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl-, iodide
(9CI) (CA INDEX NAME)

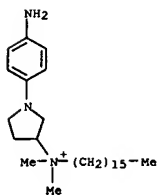


● I⁻

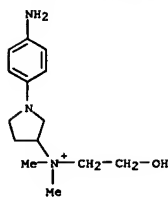
RN 435275-72-2 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-decyl-N,N-dimethyl-, iodide
(9CI) (CA INDEX NAME)

● I⁻

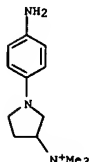
RN 435275-73-3 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexadecyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

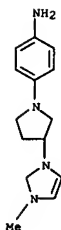
RN 435275-74-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

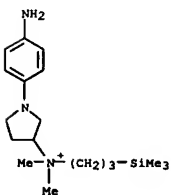
RN 435275-82-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

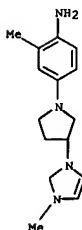
RN 607355-12-4 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

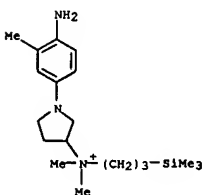
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-13-5 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

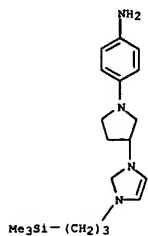
RN 607355-16-8 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

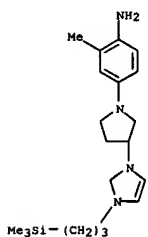
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-17-9 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

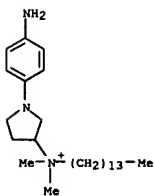
RN 607355-18-0 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

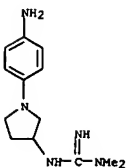
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

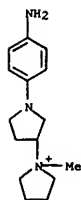
● Br⁻

RN 701975-04-4 CAPLUS
 CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)

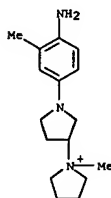


● HCl

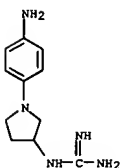
RN 701975-07-7 CAPLUS
 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

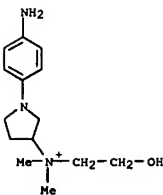
● Cl⁻

RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

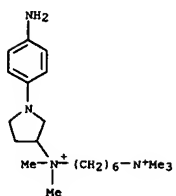


● HCl

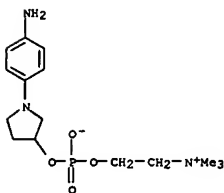
RN 701975-08-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

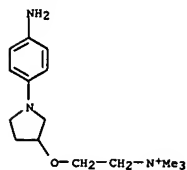
RN 701975-09-9 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

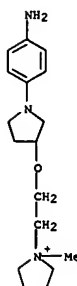
RN 701975-10-2 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl
 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl
 oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



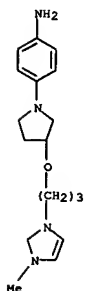
RN 701975-11-3 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-12-4 CAPLUS
 CN Pyrrolidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

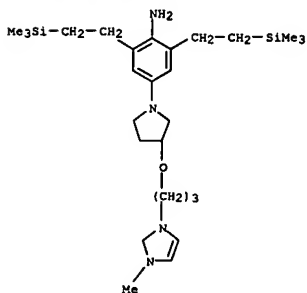
RN 701975-13-5 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

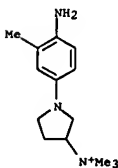
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-14-6 CAPLUS
 CN Piperidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

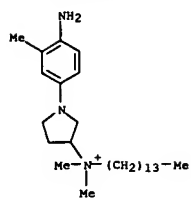
RN 701975-15-7 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

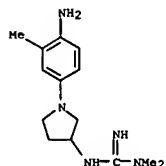
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-,
 chloride (9CI) (CA INDEX NAME)

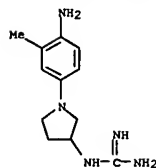
● Cl⁻

RN 701975-18-0 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



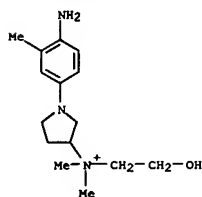
● HCl

RN 701975-19-1 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

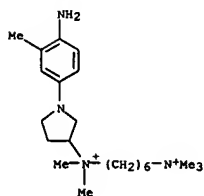


● HCl

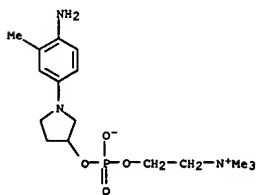
RN 701975-20-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

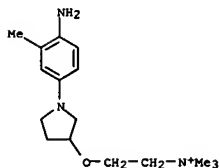
RN 701975-21-5 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

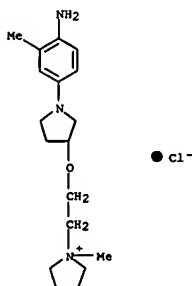
RN 701975-22-6 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



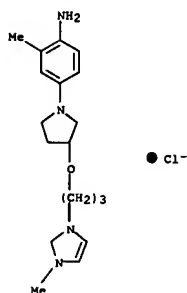
RN 701975-23-7 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

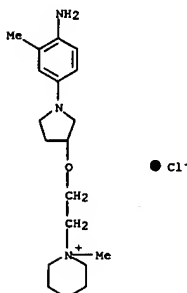
RN 701975-24-8 CAPLUS
 CN Pyrrolidinium, 1-[2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

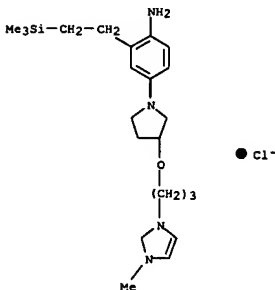
RN 701975-25-9 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



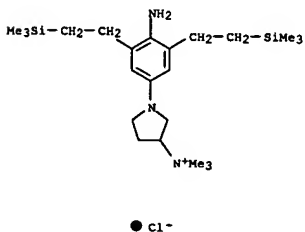
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-26-0 CAPLUS
 CN Piperidinium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-
 1-methyl-, chloride (9CI) (CA INDEX NAME)



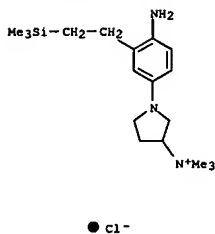
RN 701975-27-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



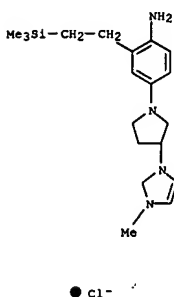
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-30-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-
 N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



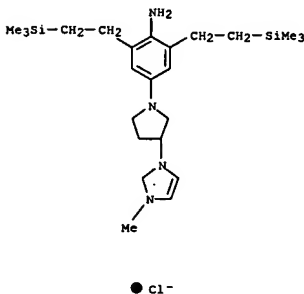
RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



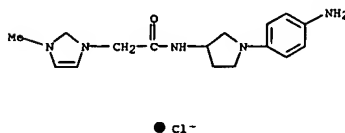
RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



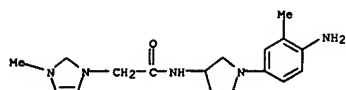
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-29-3 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-32-8 CAPLUS
 CN 1H-Imidazolium,
 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-
 3-methyl-, chloride (9CI) (CA INDEX NAME)



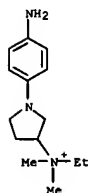
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-33-9 CAPLUS
 CN 1H-Imidazolium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 701975-34-0 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-35-1 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1

CMF C15 H26 N3

ACCESSION NUMBER: 2004:482166 CAPLUS

DOCUMENT NUMBER: 141:42538

TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a cationic polymer

INVENTOR(S): Cotteret, Jean; Lagrange, Alain

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 49 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428511	A1	20040616	EP 2003-293136	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848432	A1	20040618	FR 2002-15765	20021213
US 2004231068	A1	20041125	US 2003-735249	20031212
PRIORITY APPL. INFO.:			FR 2002-15765	A 20021213
			US 2003-450326P	P 20030228

OTHER SOURCE(S):

MARPAT 141:42538

AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a cationic polymer. Thus, a composition contained oleic

acid 9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammonosuccinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene

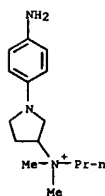
glycol 20, reducing agents 0.915, sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H2O2 and applied onto hair.

IT 435275-61-9 435275-62-0 435275-63-3
 435275-66-4 435275-67-5 435275-68-6
 435275-69-7 435275-70-0 435275-72-2
 435275-73-3 435275-74-4 435275-82-4
 607355-12-4 607355-13-5 607355-16-8
 607355-17-9 607355-18-0 607355-19-1
 607355-20-4 607355-21-5 701975-01-1
 701975-04-4 701975-07-7 701975-08-8
 701975-09-9 701975-10-2 701975-11-3
 701975-12-4 701975-13-5 701975-14-6
 701975-15-7 701975-16-8 701975-17-9
 701975-18-0 701975-19-1 701975-20-4
 701975-21-5 701975-22-6 701975-23-7
 701975-24-8 701975-25-9 701975-26-0
 701975-27-1 701975-28-2 701975-29-3
 701975-30-6 701975-31-7 701975-32-8
 701975-33-9 701975-34-0 701975-35-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (hair dyeing compns. comprising phenylenediamine with pyrrolidine ring and cationic polymer)

RN 435275-61-9 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI)



CM 2

CRN 21228-90-0

CMF C H3 O4 S

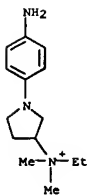
Me-O-SO₃⁻

REFERENCE COUNT: 8

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

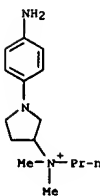
FORMAT

(CA INDEX NAME)

● I⁻

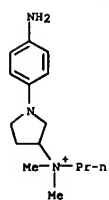
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CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide (9CI) (CA INDEX NAME)

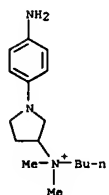
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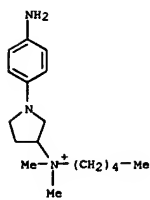
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● Br⁻

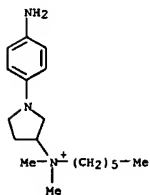
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 (9CI) (CA INDEX NAME)

● I⁻

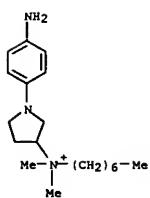
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● I⁻

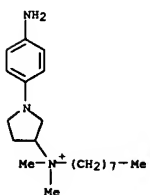
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● I⁻

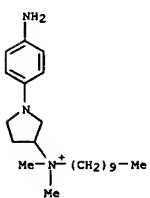
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● I⁻

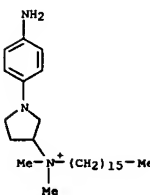
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● I⁻

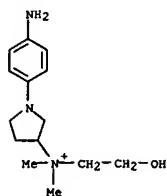
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 (9CI) (CA INDEX NAME)

● I⁻

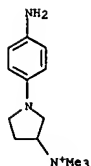
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 (9CI) (CA INDEX NAME)

● I⁻

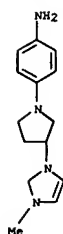
RN 435275-74-4 CAPLUS
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 iodide (9CI) (CA INDEX NAME)

● I⁻

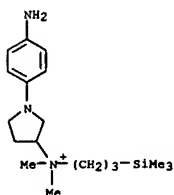
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 (CA INDEX NAME)

● Cl⁻

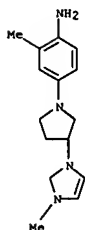
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 (9CI) (CA INDEX NAME)

● Cl⁻

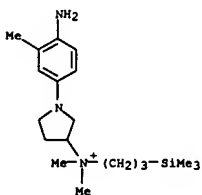
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 RN 607355-13-5 CAPLUS
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● Cl⁻

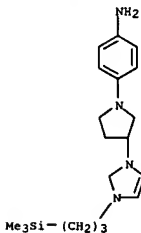
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● Cl⁻

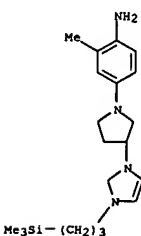
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

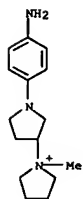
RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

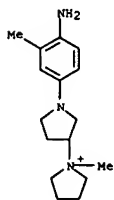
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)



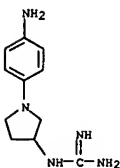
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(9CI) (CA INDEX NAME)



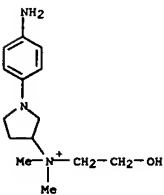
● Cl^-

RN 701975-01-1 CAPLUS
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bromide
(9CI) (CA INDEX NAME)



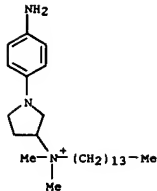
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RN 701975-08-8 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-,
chloride (9CI) (CA INDEX NAME)



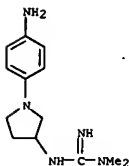
● Cl^-

RN 701975-09-9 CAPLUS
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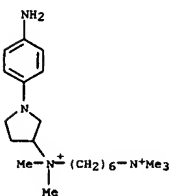
● B_{K}^{-}

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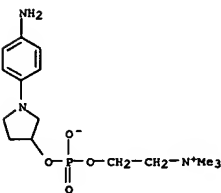


● HCl

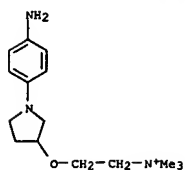
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(CA INDEX NAME)

 $\bullet_2 \text{ Cl}^-$

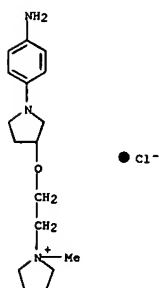
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oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



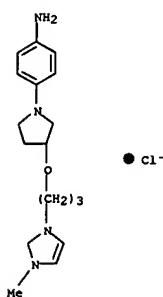
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● Cl⁻

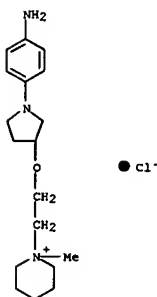
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 , chloride (9CI) (CA INDEX NAME)

● Cl⁻

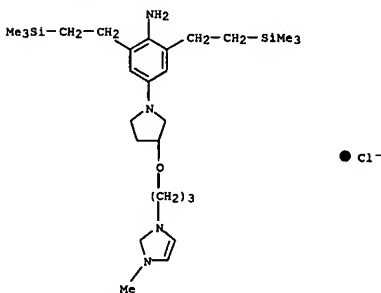
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● Cl⁻

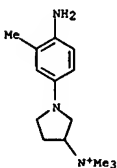
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 RN 701975-14-6 CAPLUS
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 , chloride (9CI) (CA INDEX NAME)

● Cl⁻

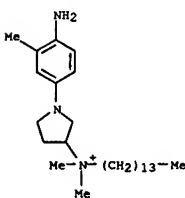
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 CN 1H-Imidazolium,
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● Cl⁻

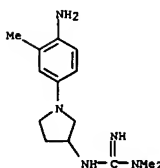
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium,
 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-,
 chloride (9CI) (CA INDEX NAME)

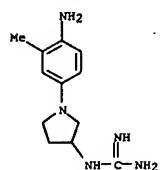
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RN 701975-18-0 CAPLUS
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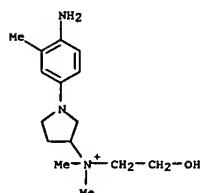
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RN 701975-19-1 CAPLUS
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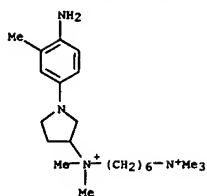


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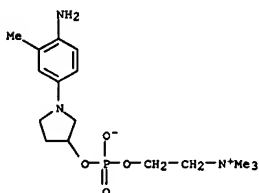
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● Cl⁻

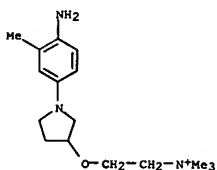
RN 701975-21-5 CAPLUS
CN 1,6-Hexanediaminium, N-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

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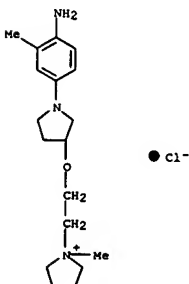
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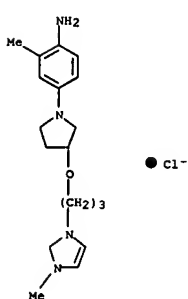
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● Cl⁻

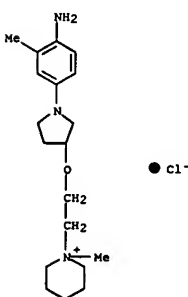
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● Cl⁻

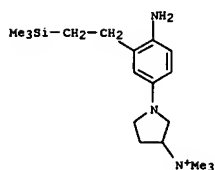
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● Cl⁻

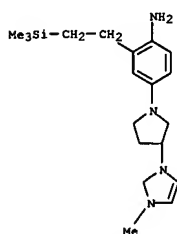
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RN 701975-26-0 CAPLUS
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● Cl⁻

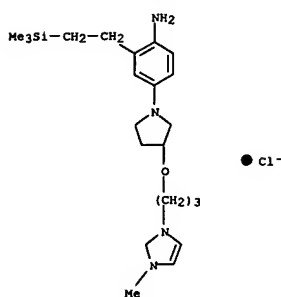
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● Cl⁻

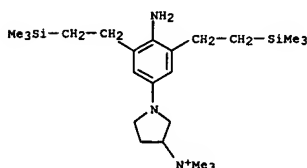
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● Cl⁻

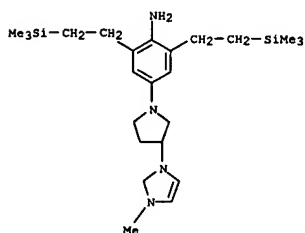
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
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 CN 1H-Imidazolium, 1-[3-[[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

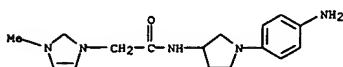
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-30-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

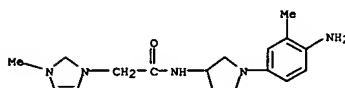
RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

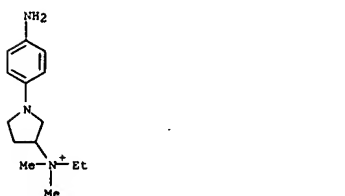
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-32-8 CAPLUS
 CN 1H-Imidazolium, 1-[2-[[1-[4-amino-3-methylphenyl]-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-33-9 CAPLUS
 CN 1H-Imidazolium, 1-[2-[[1-[4-amino-3-methylphenyl]-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

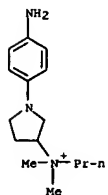
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-34-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-35-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1
 CMF C15 H26 N3



CN 2

CRN 21228-90-0
CHF C H3 O4 SMe-O-SO₃⁻

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

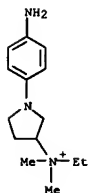
L13 ANSWER 46 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:482165 CAPLUS
 DOCUMENT NUMBER: 141:59175
 TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a heterocyclic coupler or a hydroxybenzamide
 INVENTOR(S): Cotteret, Jean; Lagrange, Alain
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Eur. Pat. Appl., 59 pp.
 CODEN: EPXKDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428510	A1	20040616	EP 2003-293135	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848434	A1	20040618	FR 2002-15767	20021213
US 2004231067	A1	20041125	US 2003-734750	20031212
PRIORITY APPLN. INFO.:			FR 2002-15767	A 20021213
			US 2003-450322P	P 20030228

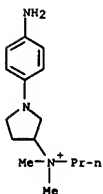
OTHER SOURCE(S): MARPAT 141:59175
 AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a heterocyclic coupler or a hydroxybenzamide. Thus, a composition contained oleyl alc. 6, oleic acid 3, polyglyceryl oleyl ether

12, diethylaminopropyl laurylamino succinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 0.8, 6-methoxy-2,3-diaminopyridine 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H₂O₂ and applied onto

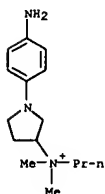
hair.
 IT 435275-61-9 435275-62-0 435275-65-3
 435275-66-4 435275-67-5 435275-68-6
 435275-69-7 435275-70-0 435275-72-2
 435275-73-3 435275-74-4 435275-82-4
 607355-12-4 607355-13-5 607355-16-8
 607355-17-9 607355-18-0 607355-19-1
 607355-20-4 607355-21-5 701975-01-1
 701975-04-4 701975-07-7 701975-08-8
 701975-09-9 701975-10-2 701975-11-3
 701975-12-4 701975-13-5 701975-14-6
 701975-15-7 701975-16-8 701975-17-9
 701975-18-0 701975-19-1 701975-20-4
 701975-21-5 701975-22-6 701975-23-7
 701975-24-8 701975-25-9 701975-26-0
 701975-27-1 701975-28-2 701975-29-3
 701975-30-6 701975-31-7 701975-32-8
 701975-33-9 701975-34-0 701975-35-1
 RL: COS (Cosmetic use); EOL (Biological study); USES (Uses)
 (hair dyeing compns. comprising phenylenediamine with pyrrolidine ring and heterocyclic coupler or hydroxybenzamide)
 RN 435275-61-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI)

● I⁻

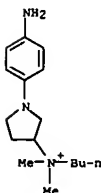
RN 435275-62-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

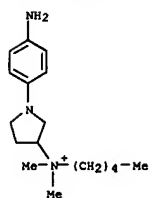
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● Br⁻

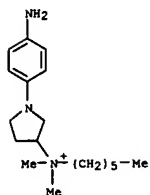
RN 435275-66-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

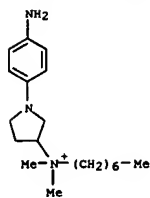
RN 435275-67-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

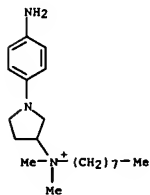
RN 435275-68-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

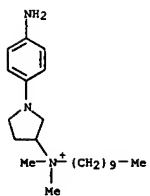
RN 435275-69-7 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-heptyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

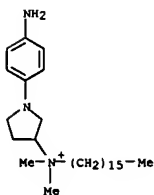
RN 435275-70-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

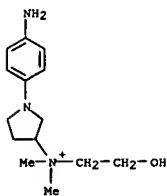
RN 435275-72-2 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-decyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

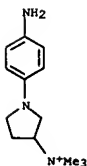
RN 435275-73-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexadecyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

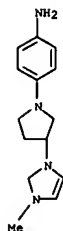
RN 435275-74-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

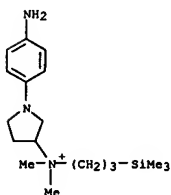
RN 435275-82-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

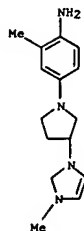
RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

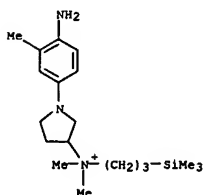
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-13-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-(3-(trimethylsilyl)propyl)-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

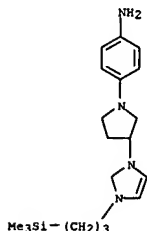
RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

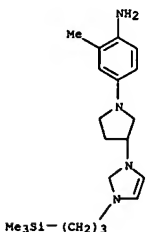
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-(3-(trimethylsilyl)propyl)-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

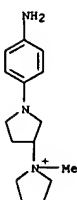
RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

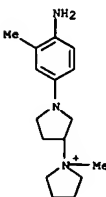
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

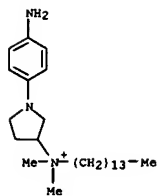
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

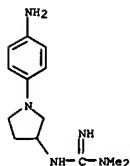
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

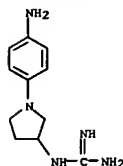
● Br⁻

RN 701975-04-4 CAPLUS
 CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



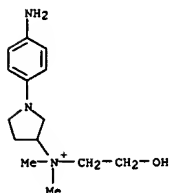
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RN 701975-07-7 CAPLUS
 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

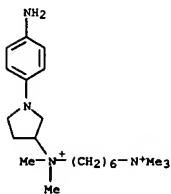


● HCl

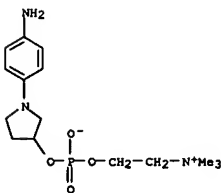
RN 701975-08-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

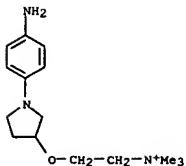
RN 701975-09-9 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

RN 701975-10-2 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



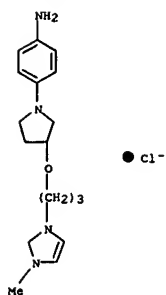
RN 701975-11-3 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

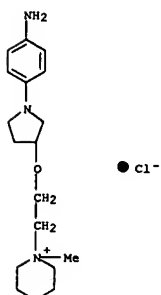
RN 701975-12-4 CAPLUS
 CN Pyrrolidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

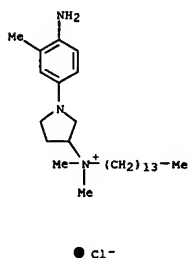
RN 701975-13-5 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



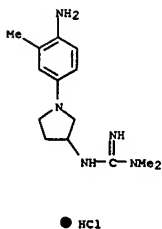
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-14-6 CAPLUS
 CN Piperidinium,
 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-
 , chloride (9CI) (CA INDEX NAME)



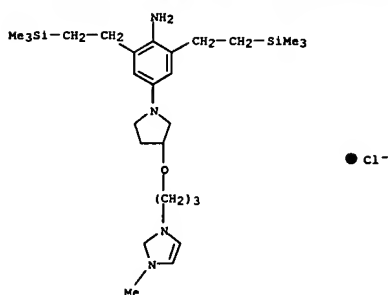
RN 701975-15-7 CAPLUS
 CN 1H-Imidazolium,
 1-[3-[[1-(4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



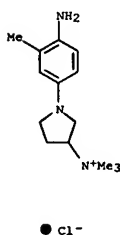
RN 701975-18-0 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



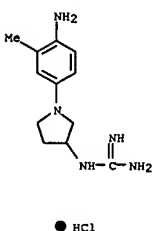
RN 701975-19-1 CAPLUS
 CN Guanidine, [1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



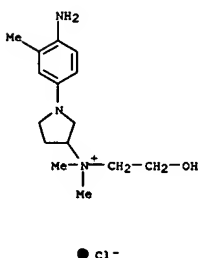
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



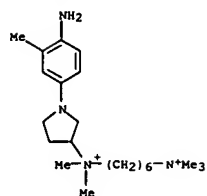
RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)



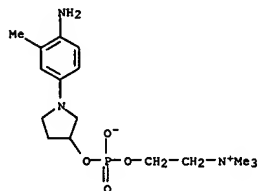
RN 701975-20-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



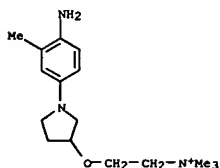
RN 701975-21-5 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N,N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

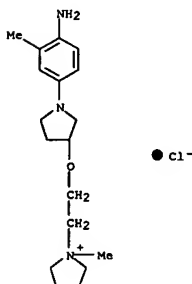
RN 701975-22-6 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



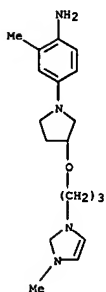
RN 701975-23-7 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

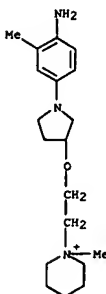
RN 701975-24-8 CAPLUS
 CN Pyrrolidinium, 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

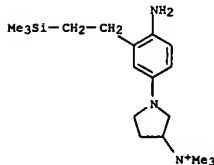
RN 701975-25-9 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

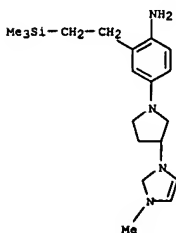
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-26-0 CAPLUS
 CN Piperidinium, 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

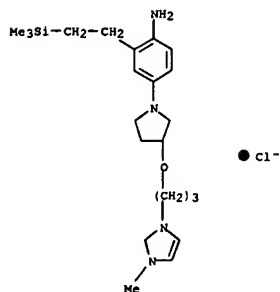
RN 701975-27-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

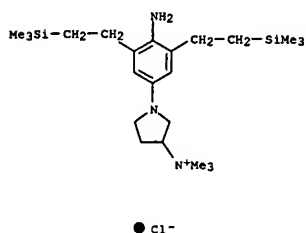
RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

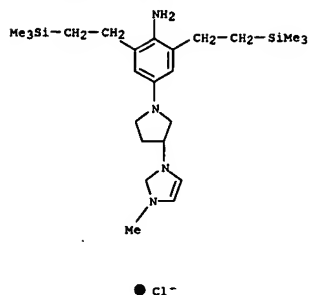
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-29-3 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



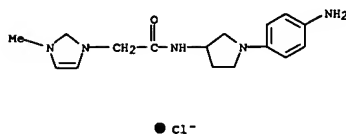
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-30-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



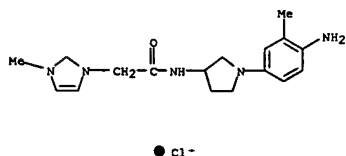
RN 701975-31-7 CAPLUS
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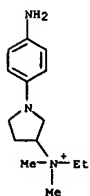
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-32-8 CAPLUS
 CN 1H-Imidazolium, 1-[2-[[1-[4-amino-3-methylphenyl]-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-33-9 CAPLUS
 CN 1H-Imidazolium, 1-[2-[[1-[4-amino-3-methylphenyl]-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



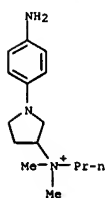
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-34-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



RN 701975-35-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1
 CHF C15 H26 N3



CM 2

CRN 21228-90-0
 CHF C H3 O4 S

Me-O-SO₃⁻

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

ACCESSION NUMBER: 2004:482164 CAPLUS

DOCUMENT NUMBER: 141:42537

TITLE: Hair dyeing compositions comprising a tertiary p-phenylenediamine with a pyrrolidine ring and a polyol

INVENTOR(S): Cottaret, Jean; Lagrange, Alain

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 50 pp.

CODEN: EPXOXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428509	A1	20040616	EP 2003-293134	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848438	A1	20040618	FR 2002-15771	20021213
US 2004226109	A1	20041118	US 2003-734653	20031212
PRIORITY APPLN. INFO.:				
			FR 2002-15771	A 20021213
			US 2003-444648P	P 20030204

OTHER SOURCE(S): MARPAT 141:42537

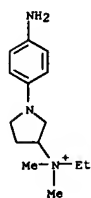
AB Hair dyeing comps. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a polyol. Thus, a composition contained oleic acid

9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylamino succinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H₂O₂ and applied onto hair.

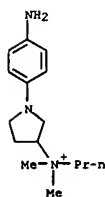
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 607355-12-4 607355-13-5 607355-16-8
 607355-17-9 607355-18-0 607355-19-1
 607355-20-4 607355-21-5 701975-01-1
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 701975-27-1 701975-28-2 701975-29-3
 701975-30-6 701975-31-7 701975-32-8
 701975-33-9 701975-34-0 701975-35-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing comps. comprising phenylenediamine with pyrrolidine ring and polyol)

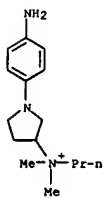
RN 435275-61-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

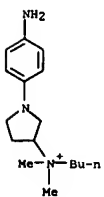
RN 435275-62-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

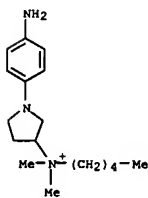
RN 435275-65-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

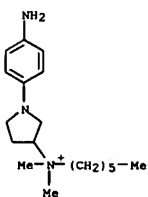
RN 435275-66-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

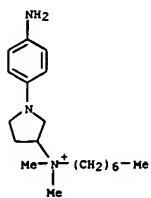
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● I⁻

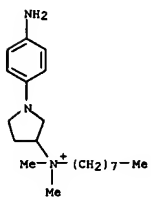
RN 435275-68-6 CAPLUS
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● I⁻

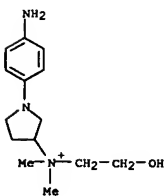
RN 435275-69-7 CAPLUS
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● I⁻

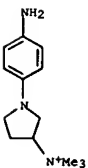
RN 435275-70-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

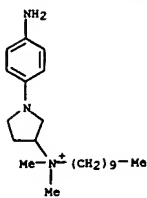
RN 435275-72-2 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-decyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

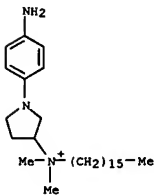
RN 435275-82-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

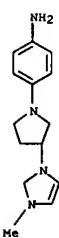
RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● I⁻

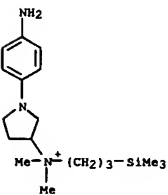
RN 435275-73-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexadecyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

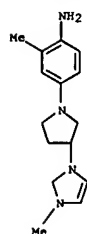
RN 435275-74-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● Cl⁻

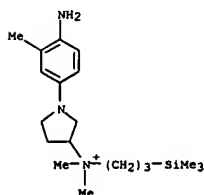
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-13-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

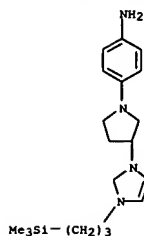
RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

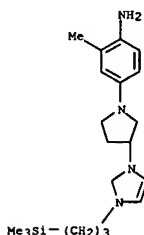
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

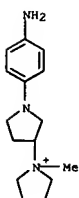
RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

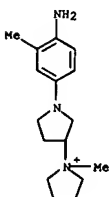
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

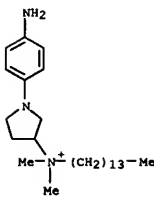
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

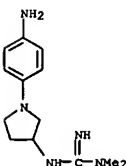
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

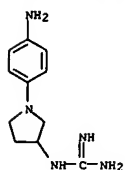
● Br⁻

RN 701975-04-4 CAPLUS
 CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



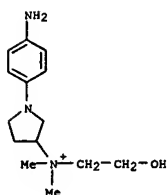
● HCl

RN 701975-07-7 CAPLUS
 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

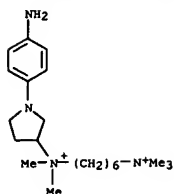


● HCl

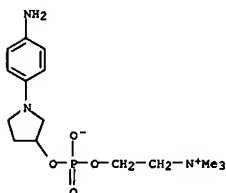
RN 701975-08-8 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

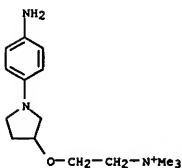
RN 701975-09-9 CAPLUS
CN 1,6-Hexanediaminium, N-[[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

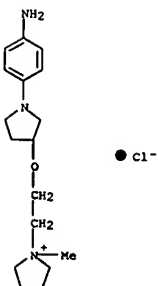
RN 701975-10-2 CAPLUS
CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



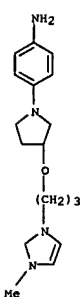
RN 701975-11-3 CAPLUS
CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-12-4 CAPLUS
CN Pyrrolidininium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

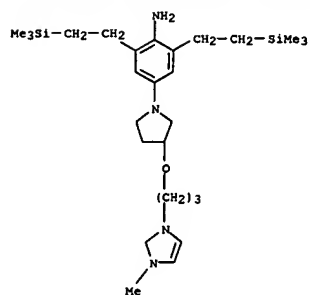
RN 701975-13-5 CAPLUS
CN 1H-Imidazolium, 1-[3-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

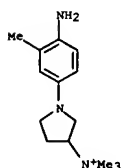
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-14-6 CAPLUS
CN Piperidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-15-7 CAPLUS
CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

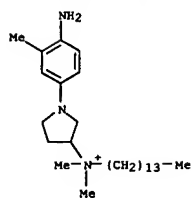


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



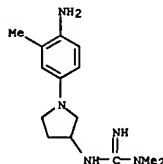
● Cl⁻

RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)



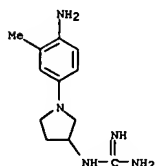
● Cl⁻

RN 701975-18-0 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



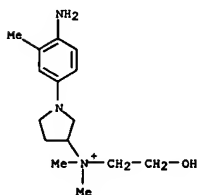
● HCl

RN 701975-19-1 CAPLUS
 CN Guanidine, [1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



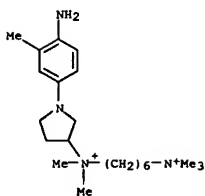
● HCl

RN 701975-20-4 CAPLUS
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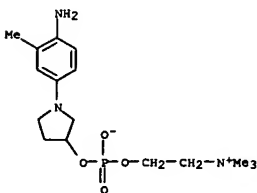
● Cl⁻

RN 701975-21-5 CAPLUS
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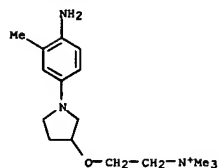


● 2 Cl⁻

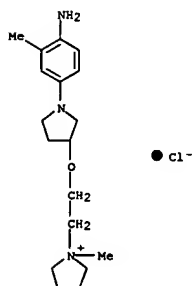
RN 701975-22-6 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



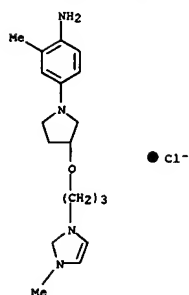
RN 701975-23-7 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

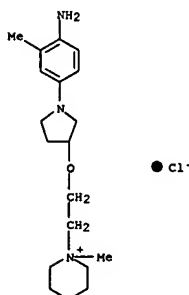
RN 701975-24-8 CAPLUS
 CN Pyrrolidinium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-
 1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

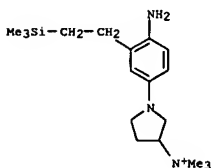
RN 701975-25-9 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

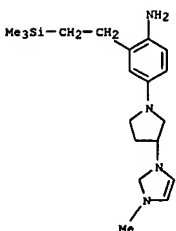
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-26-0 CAPLUS
 CN Piperidinium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-
 1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

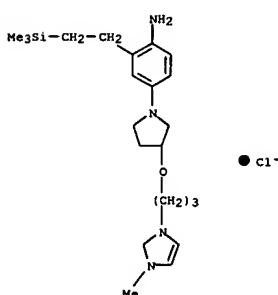
RN 701975-27-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

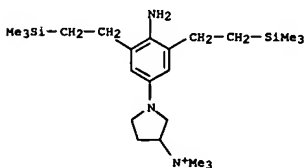
RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

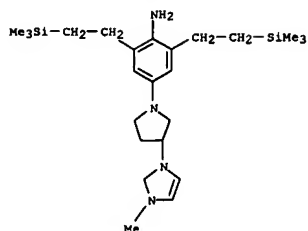
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-29-3 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-30-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

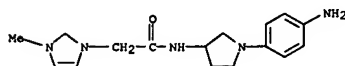
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 701975-32-8 CAPLUS

CN 1H-Imidazolium,

1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

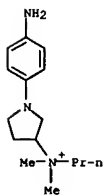
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 701975-33-9 CAPLUS

CN 1H-Imidazolium,

1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



CM 2

CRN 21228-90-0

CMF C H3 O4 S

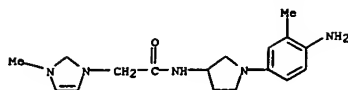
Me=O⁻SO₃⁻

REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

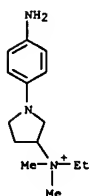
FORMAT

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 701975-34-0 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-35-1 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1

CMF C15 H26 N3

ACCESSION NUMBER: 2004:482163 CAPLUS

DOCUMENT NUMBER: 141:42536

TITLE: Hair dyeing compositions comprising a tertiary

p-phenylenediamine with a pyrrolidine ring and a

monosaccharide or disaccharide

Cotteret, Jean; Lagrange, Alain

L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 50 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428508	A1	20040616	EP 2003-293133	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848442	A1	20040618	FR 2002-15775	20021213
US 2004221400	A1	20041111	US 2003-735292	20031212
PRIORITY APPLN. INFO.:			FR 2002-15775	A 20021213
			US 2003-444623P	P 20030204

OTHER SOURCE(S): MARPAT 141:42536

AB Hair dyeing compns. comprise a tertiary p-phenylenediamine with a pyrrolidine ring and a monosaccharide or disaccharide. Thus, a composition

contained oleic acid 9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammoniosuccinamate sodium salt 3, ethoxylated oleylamine 7,

ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20,

hexylene glycol 20, reducing agents 0.915, saccharose 1, sequestrants 1,

resorcinol

0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 1.0,

2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100

g. The above composition was mixed with 6% H2O2 and applied onto hair.

IT 435275-61-9 435275-62-0 435275-63-1

435275-66-4 435275-67-5 435275-68-6

435275-69-7 435275-70-0 435275-72-2

435275-73-3 435275-74-4 435275-82-4

607355-12-4 607355-13-5 607355-16-8

607355-17-9 607355-18-0 607355-19-1

607355-20-4 607355-21-5 701975-01-1

701975-04-4 701975-07-7 701975-08-8

701975-09-9 701975-10-2 701975-11-3

701975-12-4 701975-13-5 701975-14-6

701975-15-7 701975-16-8 701975-17-9

701975-18-0 701975-19-1 701975-20-4

701975-21-5 701975-22-6 701975-23-7

701975-24-8 701975-25-9 701975-26-0

701975-27-1 701975-28-2 701975-29-3

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701975-33-9 701975-34-0 701975-35-1

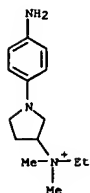
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair dyeing compns. comprising phenylenediamine with pyrrolidine ring

and monosaccharide or disaccharide)

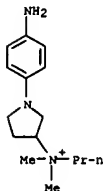
RN 435275-61-9 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI)



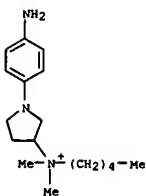
● I⁻

RN 435275-62-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide
(9CI) (CA INDEX NAME)



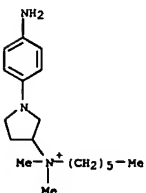
● I⁻

RN 435275-65-3 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide
(9CI) (CA INDEX NAME)



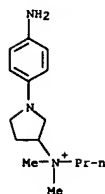
● I⁻

RN 435275-68-6 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-hexyl-, iodide
(9CI) (CA INDEX NAME)



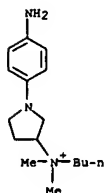
● I⁻

RN 435275-69-7 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-heptyl-, iodide
(9CI) (CA INDEX NAME)



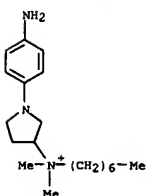
● Br⁻

RN 435275-66-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-, iodide
(9CI) (CA INDEX NAME)



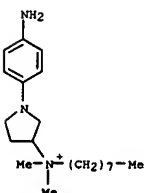
● I⁻

RN 435275-67-5 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide
(9CI) (CA INDEX NAME)



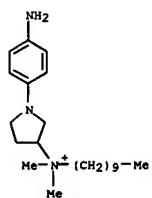
● I⁻

RN 435275-70-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl-, iodide
(9CI) (CA INDEX NAME)

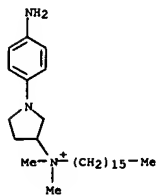


● I⁻

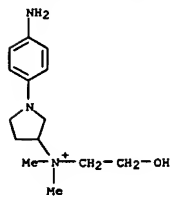
RN 435275-72-2 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-, iodide
(9CI) (CA INDEX NAME)

● I⁻

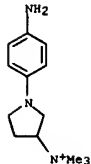
RN 435275-73-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexadecyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

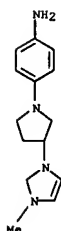
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 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

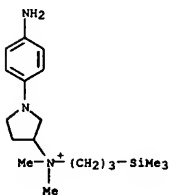
RN 435275-82-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

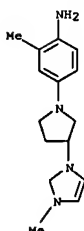
RN 607355-12-4 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

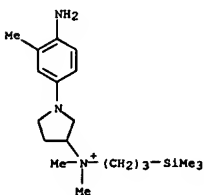
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-13-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

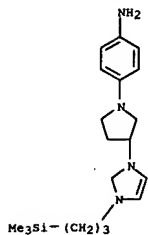
RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

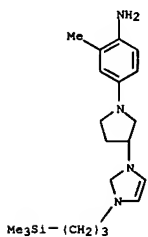
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

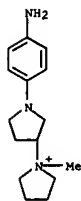
RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

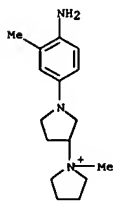
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

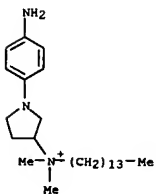
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

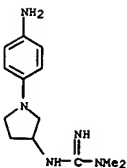
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

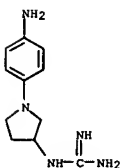
● Br⁻

RN 701975-04-4 CAPLUS
 CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



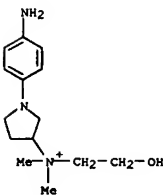
● HCl

RN 701975-07-7 CAPLUS
 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

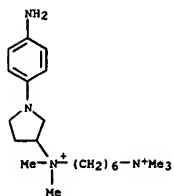


● HCl

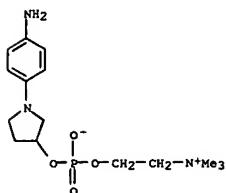
RN 701975-08-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

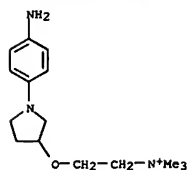
RN 701975-09-9 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

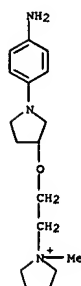
RN 701975-10-2 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



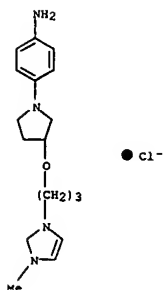
RN 701975-11-3 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]oxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

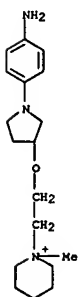
RN 701975-12-4 CAPLUS
 CN Pyrrolidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

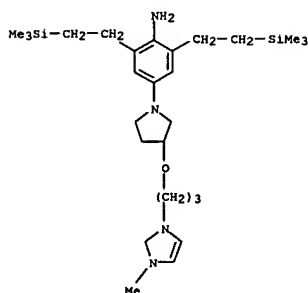
RN 701975-13-5 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

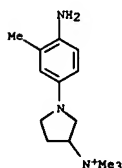
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-14-6 CAPLUS
 CN Piperidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

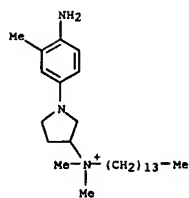
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 CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

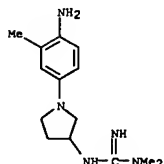
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)

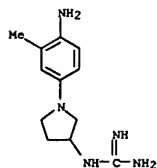
● Cl⁻

RN 701975-18-0 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



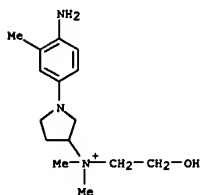
● HCl

RN 701975-19-1 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

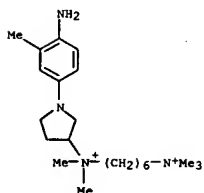


● HCl

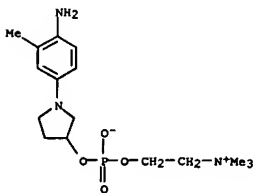
RN 701975-20-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

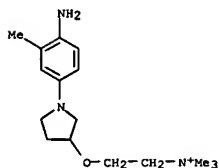
RN 701975-21-5 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

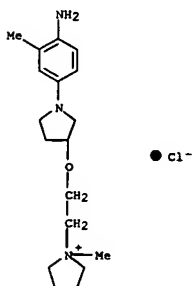
RN 701975-22-6 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



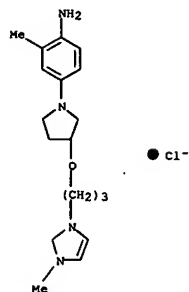
RN 701975-23-7 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

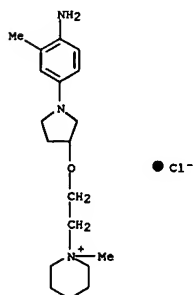
RN 701975-24-8 CAPLUS
 CN Pyrrolidinium, 1-[2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

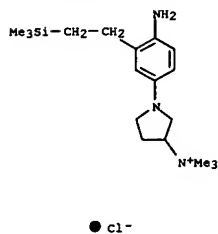
RN 701975-25-9 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



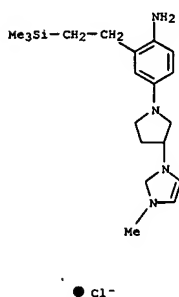
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-26-0 CAPLUS
 CN Piperidinium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-
 1-methyl-, chloride (9CI) (CA INDEX NAME)



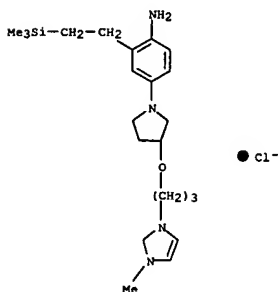
RN 701975-27-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



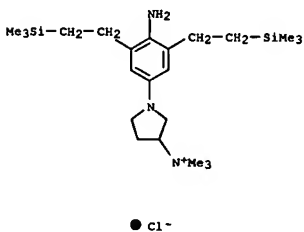
RN 701975-28-2 CAPLUS
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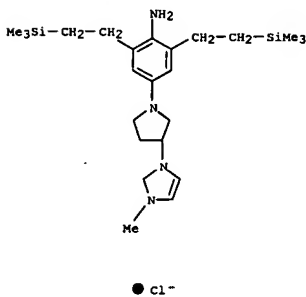
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-29-3 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



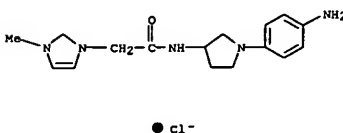
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-30-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-
 N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



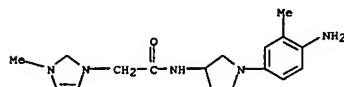
RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-32-8 CAPLUS
 CN 1H-Imidazolium,
 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-
 3-methyl-, chloride (9CI) (CA INDEX NAME)



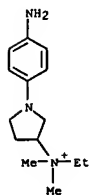
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-33-9 CAPLUS
 CN 1H-Imidazolium,
 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 701975-34-0 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-35-1 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl sulfate (9CI) (CA INDEX NAME)

CH 1

CRN 435275-63-1

CMF C15 H26 N3

L13 ANSWER 49 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:482162 CAPLUS

DOCUMENT NUMBER: 141:42535

TITLE: Hair dyeing composition comprising a cationic p-phenylenediamine with a pyrrolidine ring and a dicarboxylic acid

INVENTOR(S): Cotteret, Jean; Lagrange, Alain

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 50 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428507	A1	20040616	EP 2003-293132	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848435	A1	20040618	FR 2002-15768	20021213
US 2004216244	A1	20041104	US 2003-735273	20031212
PRIORITY APPLN. INFO.:			FR 2002-15768	A 20021213
			US 2003-450344P	P 20030228

OTHER SOURCE(S):

MARPAT 141:42535

AB Hair dyeing compns. comprise a cationic p-phenylenediamine with a pyrrolidine ring and a dicarboxylic acid. Thus, a composition contained

oleic acid 9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammoniumacetate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, propylene glycol 20, dilinoleic acid 1.5, reducing agents 0.913, sequestrants 1, resorcinol 0.085, (1-(4-aminophenyl)pyrrolidin-3-yl)trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, perfume

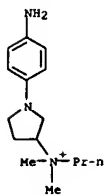
qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 61

H2O2 and applied onto hair.

IT 435275-61-9 435275-62-0 435275-65-3
435275-66-4 435275-67-5 435275-68-6
435275-69-7 435275-70-0 435275-72-2
435275-73-3 435275-74-4 435275-82-4
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607355-17-9 607355-18-0 607355-19-1
607355-20-4 607355-21-5 701975-01-1
701975-04-4 701975-07-7 701975-08-8
701975-09-9 701975-10-2 701975-11-3
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701975-30-6 701975-31-7 701975-32-8
701975-33-9 701975-34-0 701975-35-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyeing composition comprising cationic phenylenediamine with pyrrolidine ring and dicarboxylic acid)

RN 435275-61-9 CAPLUS



CH 2

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO₃⁻

REFERENCE COUNT: 8

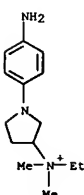
THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L13 ANSWER 49 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

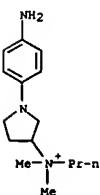
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI)

(CA INDEX NAME)

● I⁻

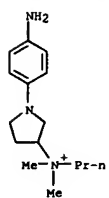
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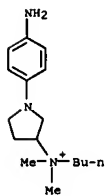
● I⁻

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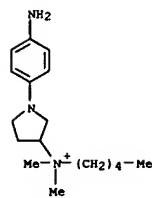
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

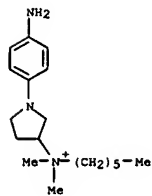
RN 435275-66-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

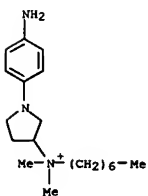
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 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

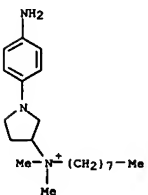
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 (9CI) (CA INDEX NAME)

● I⁻

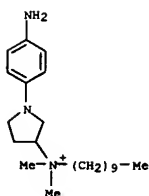
RN 435275-69-7 CAPLUS
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 (9CI) (CA INDEX NAME)

● I⁻

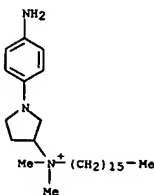
RN 435275-70-0 CAPLUS
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 (9CI) (CA INDEX NAME)

● I⁻

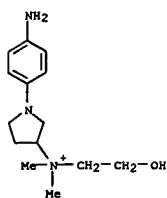
RN 435275-72-2 CAPLUS
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 (9CI) (CA INDEX NAME)

● I⁻

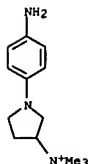
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 (9CI) (CA INDEX NAME)

● I⁻

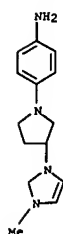
RN 435275-74-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-,
 iodide (9CI) (CA INDEX NAME)

● I⁻

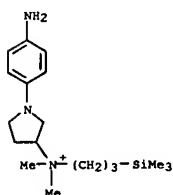
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 (CA INDEX NAME)

● Cl⁻

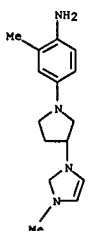
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 (9CI) (CA INDEX NAME)

● Cl⁻

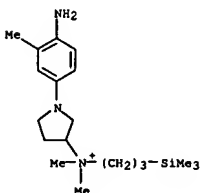
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 RN 607355-13-5 CAPLUS
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● Cl⁻

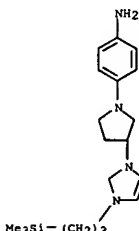
RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

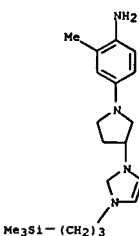
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

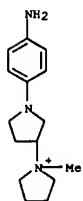
RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

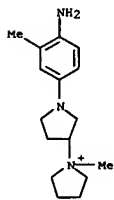
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● Cl⁻

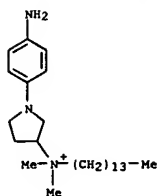
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bispyrrolidinium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

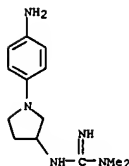
RN 607355-21-5 CAPLUS
CN 1,3'-Bipyrrrolidinium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-01-1 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

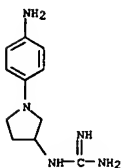
● Br⁻

RN 701975-04-4 CAPLUS
CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



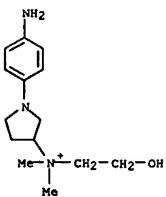
● HCl

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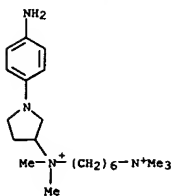


● HCl

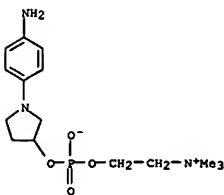
RN 701975-08-8 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

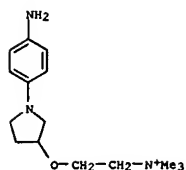
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CN 1,6-Hexanediaminium, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

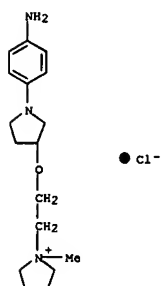
RN 701975-10-2 CAPLUS
CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



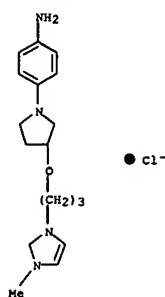
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CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

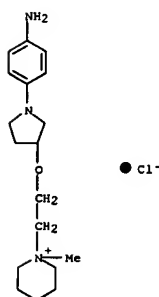
RN 701975-12-4 CAPLUS
 CN Pyrrolidinium,
 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

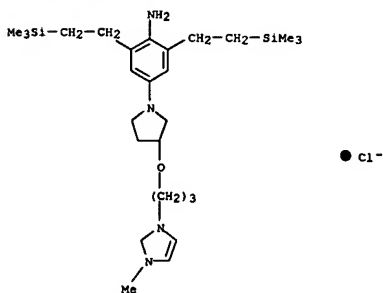
RN 701975-13-5 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

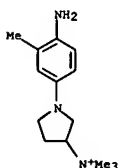
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-14-6 CAPLUS
 CN Piperidinium,
 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

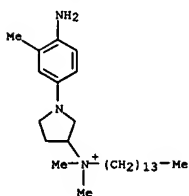
RN 701975-15-7 CAPLUS
 CN 1H-Imidazolium,
 1-[3-[[1-(4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

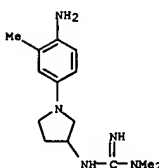
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium,
 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-,
 chloride (9CI) (CA INDEX NAME)

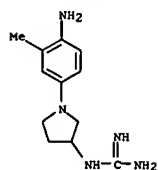
● Cl⁻

RN 701975-18-0 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl-,
 monohydrochloride (9CI) (CA INDEX NAME)



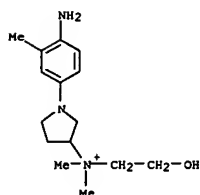
● HCl

RN 701975-19-1 CAPLUS
 CN Guanidine, [1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-,
 monohydrochloride (9CI) (CA INDEX NAME)

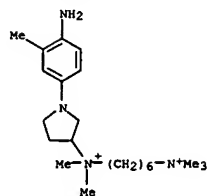


● HCl

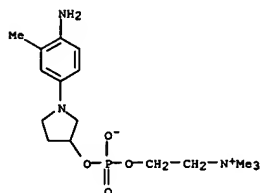
RN 701975-20-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

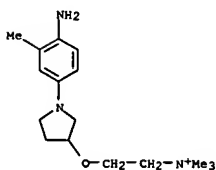
RN 701975-21-5 CAPLUS
CN 1,6-Hexanediaminium, N-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

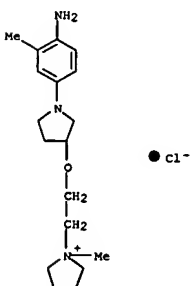
RN 701975-22-6 CAPLUS
CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



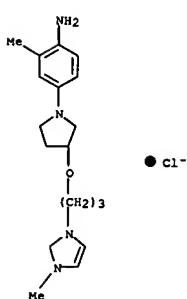
RN 701975-23-7 CAPLUS
CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

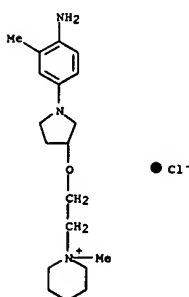
RN 701975-24-8 CAPLUS
CN Pyrrolidinium, 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

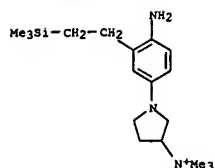
RN 701975-25-9 CAPLUS
CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-26-0 CAPLUS
CN Piperidinium, 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

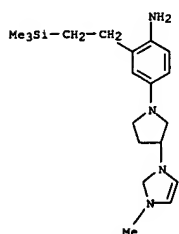
● Cl⁻

RN 701975-27-1 CAPLUS
CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



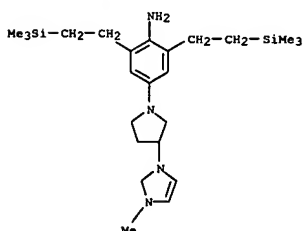
● Cl⁻

RN 701975-28-2 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3-(2-(trimethylsilyl)ethyl)phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



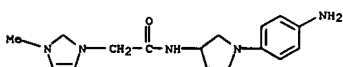
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-29-3 CAPLUS
CN 1H-Imidazolium, 1-[3-[[1-[4-amino-3-(2-(trimethylsilyl)ethyl)phenyl]-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



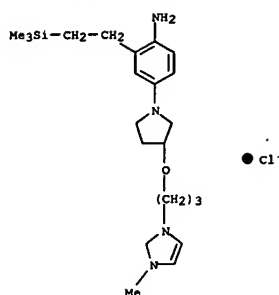
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-32-8 CAPLUS
CN 1H-Imidazolium, 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



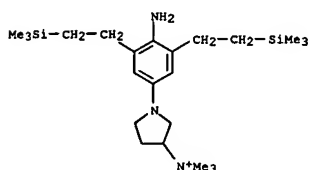
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-33-9 CAPLUS
CN 1H-Imidazolium, 1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



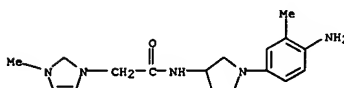
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-30-6 CAPLUS
CN 3-Pyrrolidinaminium, 1-[1-[4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



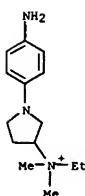
● Cl⁻

RN 701975-31-7 CAPLUS
CN 3-Pyrrolidinaminium, 1-[1-[4-amino-3,5-bis(2-(trimethylsilyl)ethyl)phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-34-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

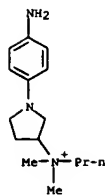


● Cl⁻

RN 701975-35-1 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1
CMF C15 H26 N3



CH 2

CRN 21228-90-0

CMF C H3 O4 S

Me-O-SO₃⁻

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L13 ANSWER 50 OF 298 CAPIUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:482161 CAPIUS

DOCUMENT NUMBER: 141:42534

TITLE: Hair dyeing composition comprising p-phenylenediamine with a pyrrolidine ring and a polymer

INVENTOR(S): Cotteret, Jean; Lagrange, Alain

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 53 pp.

CODEN: EPKXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428506	A1	20040616	EP 2003-293131	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848433	A1	20040618	FR 2002-15766	20021213
US 2004216246	A1	20041104	US 2003-735524	20031212
PRIORITY APPLN. INFO.:			FR 2002-15766	A 20021213
			US 2003-450338P	P 20030228

AB Hair dyeing composition comprise p-phenylenediamine with a cationic pyrrolidine ring and a polymer with fatty chains. Thus, a composition contained oleic acid

9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammoniosuccinamate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, hexylene glycol 20, reducing agents 0.915, sequestrants 1, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 0.8, ACP-1234 0.2, 2-methyl-5-aminophenol 0.5, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition was mixed with 6% H₂O₂ and applied onto hair.

IT 435275-61-9 435275-62-0 435275-65-3

435275-66-4 435275-67-5 435275-68-6

435275-69-7 435275-70-0 435275-72-2

435275-73-3 435275-74-4 435275-82-4

607355-12-4 607355-13-5 607355-16-8

607355-17-9 607355-18-0 607355-19-1

607355-20-4 607355-21-5 701975-01-1

701975-04-4 701975-07-7 701975-08-8

701975-09-9 701975-10-2 701975-11-3

701975-12-4 701975-13-5 701975-14-6

701975-15-7 701975-16-8 701975-17-9

701975-18-0 701975-19-1 701975-20-4

701975-21-5 701975-22-6 701975-23-7

701975-24-8 701975-25-9 701975-26-0

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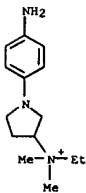
701975-33-9 701975-34-0 701975-35-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(hair dyeing composition comprising phenylenediamine with pyrrolidine ring and polymer)

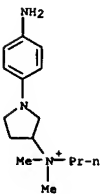
RN 435275-61-9 CAPIUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI)

● I⁻

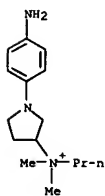
RN 435275-62-0 CAPIUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

RN 435275-65-3 CAPIUS

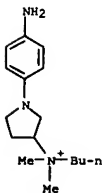
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● Br⁻

RN 435275-66-4 CAPIUS

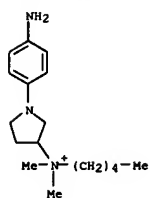
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide (9CI)

(CA INDEX NAME)

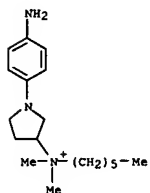
● I⁻

RN 435275-67-5 CAPIUS

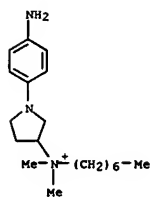
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

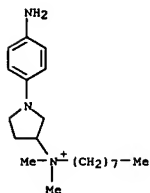
RN 435275-68-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

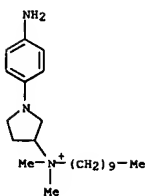
RN 435275-69-7 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-heptyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

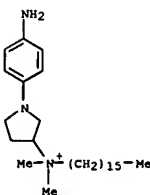
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 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

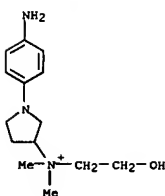
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 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-decyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

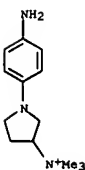
RN 435275-73-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexadecyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

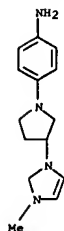
RN 435275-74-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

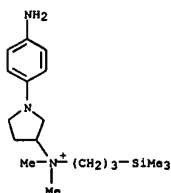
RN 435275-82-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI)
 (CA INDEX NAME)

● Cl⁻

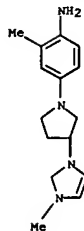
RN 607355-12-4 CAPLUS
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 (9CI) (CA INDEX NAME)

● Cl⁻

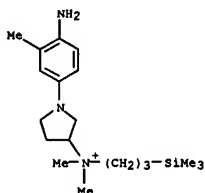
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-13-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

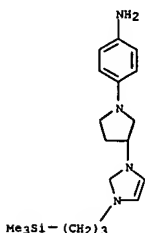
RN 607355-16-8 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

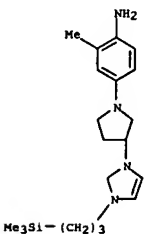
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

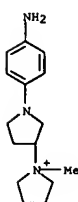
RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

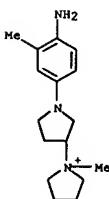
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

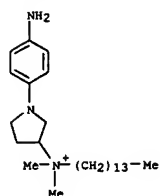
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrrolidininium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

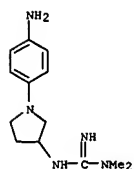
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrrolidininium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

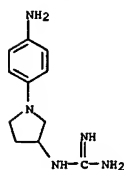
● Br⁻

RN 701975-04-4 CAPLUS
 CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



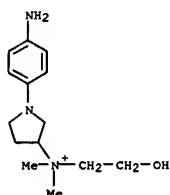
● HCl

RN 701975-07-7 CAPLUS
 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

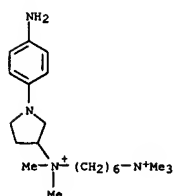


● HCl

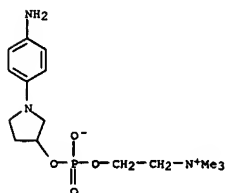
RN 701975-08-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

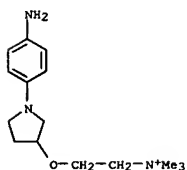
RN 701975-09-9 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

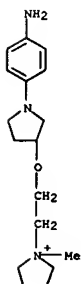
RN 701975-10-2 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



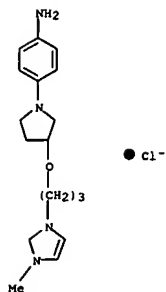
RN 701975-11-3 CAPLUS
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● Cl⁻

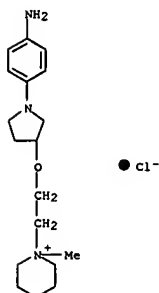
RN 701975-12-4 CAPLUS
 CN Pyrrolidinium, 1-[2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

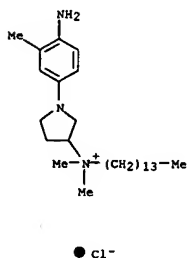
RN 701975-13-5 CAPLUS
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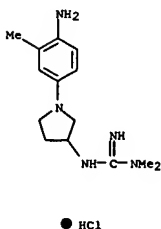
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-14-6 CAPLUS
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 1-[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-
 , chloride (9CI) (CA INDEX NAME)



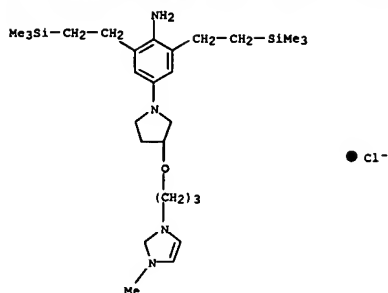
RN 701975-15-7 CAPLUS
 CN 1H-Imidazolium,
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 3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



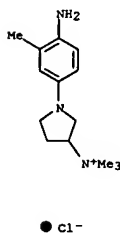
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 monohydrochloride (9CI) (CA INDEX NAME)



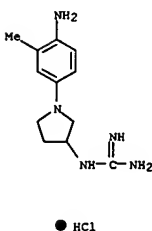
RN 701975-19-1 CAPLUS
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 monohydrochloride
 (9CI) (CA INDEX NAME)



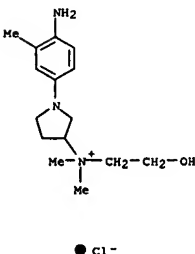
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-,
 chloride (9CI) (CA INDEX NAME)



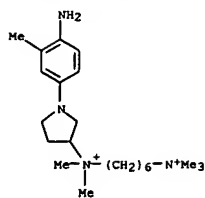
RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium,
 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-,
 chloride (9CI) (CA INDEX NAME)



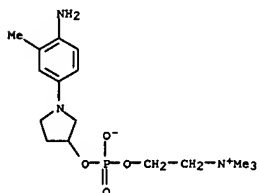
RN 701975-20-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-
 dimethyl-, chloride (9CI) (CA INDEX NAME)



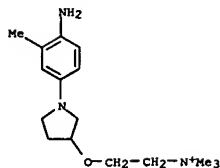
RN 701975-21-5 CAPLUS
 CN 1,6-Hexanediaminium, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-
 N,N,N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

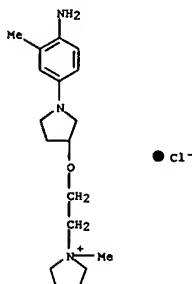
RN 701975-22-6 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



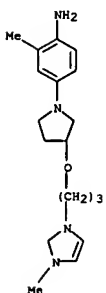
RN 701975-23-7 CAPLUS
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● Cl⁻

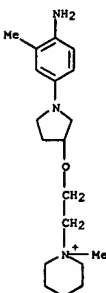
RN 701975-24-8 CAPLUS
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● Cl⁻

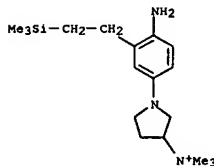
RN 701975-25-9 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

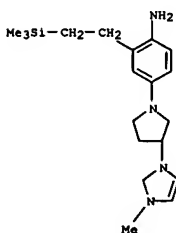
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-26-0 CAPLUS
 CN Piperidinium, 1-[2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

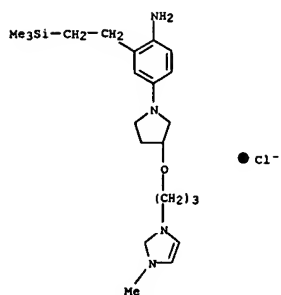
RN 701975-27-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

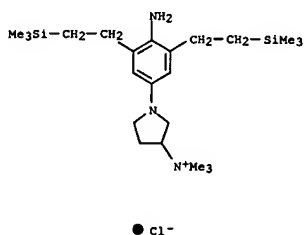
RN 701975-28-2 CAPLUS
 CN 1H-Imidazolium, 1-[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

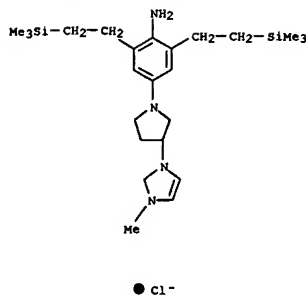
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-29-3 CAPLUS
 CN 1H-Imidazolium, 1-[3-[[[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



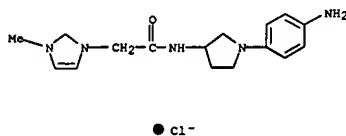
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-30-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



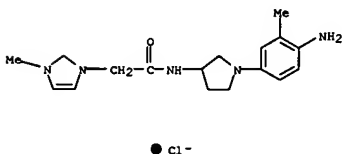
RN 701975-31-7 CAPLUS
 CN 1H-Imidazolium, 1-[2-[[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



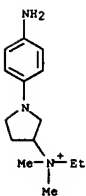
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-32-8 CAPLUS
 CN 1H-Imidazolium, 1-[2-[[1-[4-amino-3-methylphenyl]-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-33-9 CAPLUS
 CN 1H-Imidazolium, 1-[2-[[1-[4-amino-3-methylphenyl]-3-pyrrolidinyl]amino]-2-oxoethyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



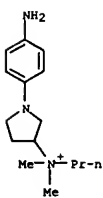
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-34-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



RN 701975-35-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1
 CMF C15 H26 N3



CM 2

CRN 21228-90-0
 CMF C H3 O4 S

Me-O-SO3-

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L13 ANSWER 51 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:482160 CAPLUS

DOCUMENT NUMBER: 141:42533

TITLE: Hair dyeing compositions comprising a cationic tertiary p-phenylenediamine with a pyrrolidine ring and a cationic heterocyclic direct dye

INVENTOR(S): Cotteret, Jean; Lagrange, Alain

PATENT ASSIGNEE(S): L'oreal, Fr.

SOURCE: Eur. Pat. Appl., 104 pp.

CODEN: EPXDXW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1428505	A1	20040616	EP 2003-293130	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2848439	A1	20040618	FR 2002-15772	20021213
US 2004221399	A1	20041111	US 2003-735259	20031212
PRIORITY APPLN. INFO.: FR 2002-15772 A 20021213				
US 2003-444641P P 20030204				

OTHER SOURCE(S): MARPAT 141:42533
AB Hair dyeing comps. comprise a cationic tertiary p-phenylenediamine with a

pyrrolidine ring and a cationic heterocyclic direct dye. Thus, a composition contained oleic acid 9, polyglyceryl oleyl ether 12, diethylaminopropyl laurylammoniosuccinate sodium salt 3, ethoxylated oleylamine 7, ethoxylated alkyl ether monoethanolamide 10, ammonium acetate 20, propylene glycol 20, dilinoleic acid 1.5, reducing agents 0.915, sequestrants 1, resorcinol 0.085, [1-(4-aminophenyl)pyrrolidin-3-yl]trimethylammonium chloride 1.0, 2-methyl-5-aminophenol 0.5, niacinamide

0.2, perfume qs, ammonia 10.2, and water qs to 100 g. The above composition

(50 g) was mixed with oxygenated water and 0.2 g Basic Red-51.

IT 435275-61-9 435275-62-0 435275-65-3
435275-66-4 435275-67-5 435275-68-6
435275-69-7 435275-70-0 435275-72-2
435275-73-3 435275-74-4 435275-82-4
607355-12-4 607355-13-5 607355-16-8
607355-17-9 607355-18-0 607355-19-1
607355-20-4 607355-21-5 701975-01-1
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701975-09-9 701975-10-2 701975-11-3
701975-12-4 701975-13-5 701975-14-6
701975-15-7 701975-16-8 701975-17-9
701975-18-0 701975-19-1 701975-20-4
701975-21-5 701975-22-6 701975-23-7
701975-24-8 701975-25-9 701975-26-0
701975-27-1 701975-28-2 701975-29-3
701975-30-6 701975-31-7 701975-32-8
701975-33-9 701975-34-0 701975-35-1

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dyeing comps. comprising cationic tertiary phenylenediamine with

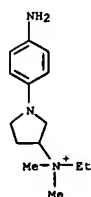
L13 ANSWER 51 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

pyrrolidine ring and cationic heterocyclic direct dye)

RN 435275-61-9 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide

(9CI) (CA INDEX NAME)

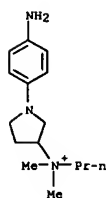


• I⁻

RN 435275-62-0 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide

(9CI) (CA INDEX NAME)



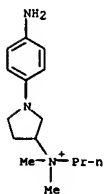
• I⁻

RN 435275-65-3 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide

(9CI) (CA INDEX NAME)

L13 ANSWER 51 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

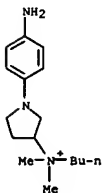


• Br⁻

RN 435275-66-4 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide

(9CI) (CA INDEX NAME)



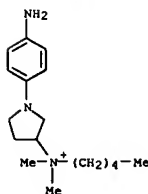
• I⁻

RN 435275-67-5 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide

(9CI) (CA INDEX NAME)

L13 ANSWER 51 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

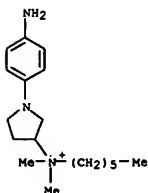


• I⁻

RN 435275-68-6 CAPLUS

CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexyl-N,N-dimethyl-, iodide

(9CI) (CA INDEX NAME)

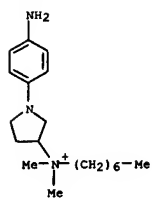


• I⁻

RN 435275-69-7 CAPLUS

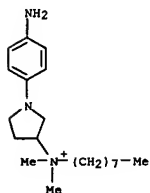
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-heptyl-N,N-dimethyl-, iodide

(9CI) (CA INDEX NAME)



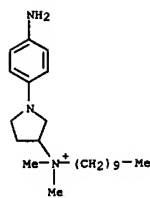
● I⁻

RN 435275-70-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl-, iodide (9CI)
(CA INDEX NAME)



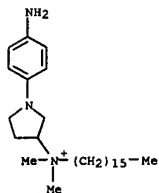
● I⁻

RN 435275-72-2 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-decyl-N,N-dimethyl-, iodide (9CI)
(CA INDEX NAME)



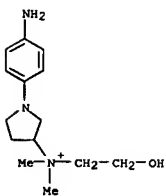
● I⁻

RN 435275-73-3 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexadecyl-N,N-dimethyl-, iodide (9CI)
(CA INDEX NAME)



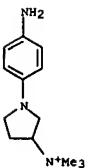
● I⁻

RN 435275-74-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, iodide (9CI)
(CA INDEX NAME)



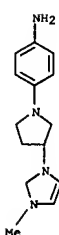
● I⁻

RN 435275-82-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI)
(CA INDEX NAME)



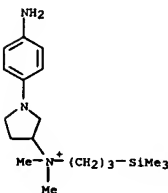
● Cl⁻

RN 607355-12-4 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI)
(CA INDEX NAME)



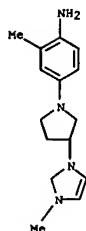
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 607355-13-5 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI)
(CA INDEX NAME)

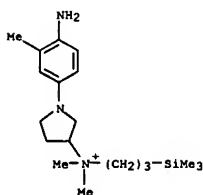


● Cl⁻

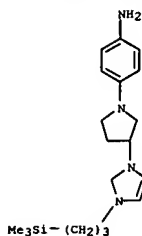
RN 607355-16-8 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI)
(CA INDEX NAME)

● Cl⁻

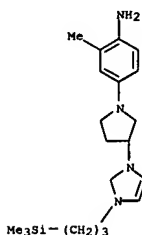
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

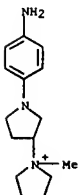
RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

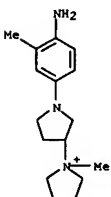
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

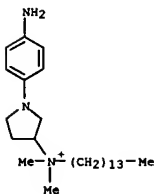
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

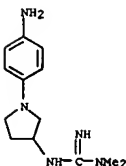
RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-01-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-tetradecyl-, bromide (9CI) (CA INDEX NAME)

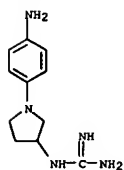
● Br⁻

RN 701975-04-4 CAPLUS
 CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



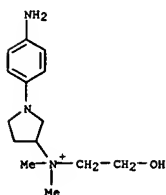
● HCl

RN 701975-07-7 CAPLUS
 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)

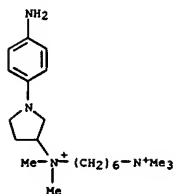


● HCl

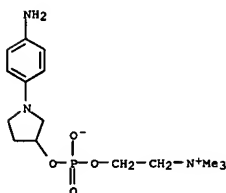
RN 701975-08-8 CAPLUS
CN 3-Pyrrolidinaminium, 1-[(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

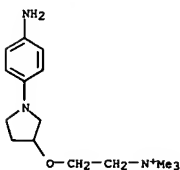
RN 701975-09-9 CAPLUS
CN 1,6-Hexanediaminium, N-[[1-[(4-aminophenyl)-3-pyrrolidinyl]oxy]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

RN 701975-10-2 CAPLUS
CN Ethanaminium, 2-[[[1-[(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



RN 701975-11-3 CAPLUS
CN Ethanaminium, 2-[[[1-[(4-aminophenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-12-4 CAPLUS
CN Pyrrolidinium, 1-[[2-[[[1-[(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

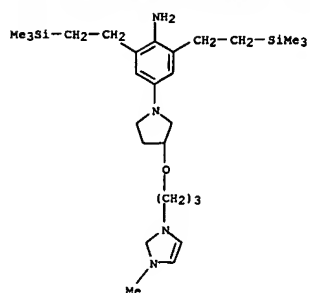
RN 701975-13-5 CAPLUS
CN 1H-Imidazolium, 1-[[3-[[[1-[(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

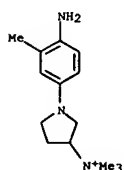
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-14-6 CAPLUS
CN Piperidinium, 1-[[2-[[[1-[(4-aminophenyl)-3-pyrrolidinyl]oxy]ethyl]-1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-15-7 CAPLUS
CN 1H-Imidazolium, 1-[[3-[[[1-[(4-aminophenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

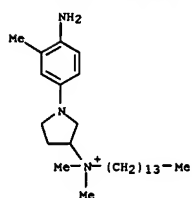


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-16-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)



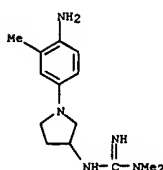
● Cl⁻

RN 701975-17-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-tetradecyl-, chloride (9CI) (CA INDEX NAME)



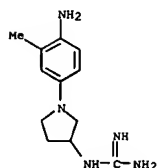
● Cl⁻

RN 701975-18-0 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



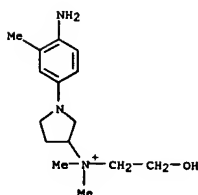
● HCl

RN 701975-19-1 CAPLUS
 CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



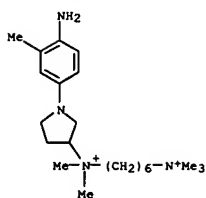
● HCl

RN 701975-20-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)



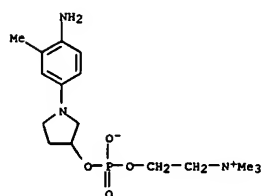
● Cl⁻

RN 701975-21-5 CAPLUS
 CN 1,6-Hexanediiminium, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N,N',N',N'-pentamethyl-, dichloride (9CI) (CA INDEX NAME)

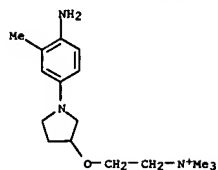


● 2 Cl⁻

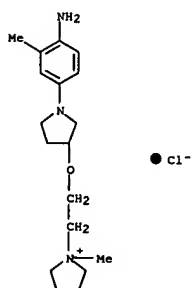
RN 701975-22-6 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyloxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



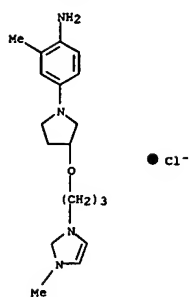
RN 701975-23-7 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

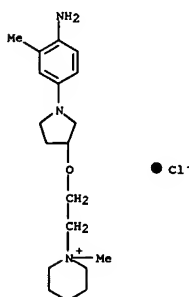
RN 701975-24-8 CAPLUS
CN Pyrrolidinium,
1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-
1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

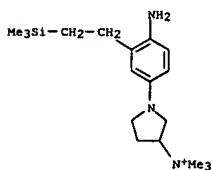
RN 701975-25-9 CAPLUS
CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

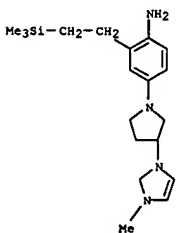
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-26-0 CAPLUS
CN Piperidinium,
1-[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]ethyl]-
1-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

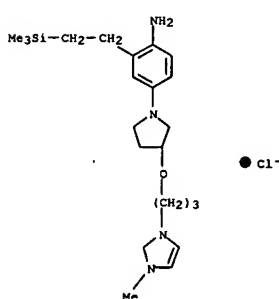
RN 701975-27-1 CAPLUS
CN 3-Pyrrolidinaminium, 1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

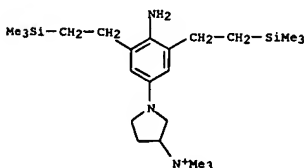
RN 701975-28-2 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3-[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

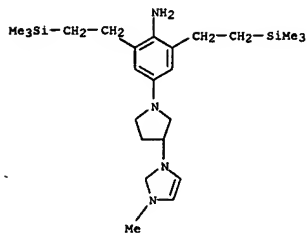
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-29-3 CAPLUS
CN 1H-Imidazolium, 1-[3-[[1-(4-amino-3-[2-(trimethylsilyl)ethyl]phenyl)-3-pyrrolidinyl]oxy]propyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

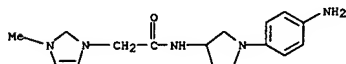
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 701975-30-6 CAPLUS
CN 3-Pyrrolidinaminium, 1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

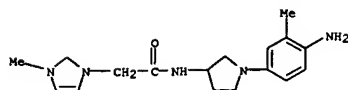
RN 701975-31-7 CAPLUS
CN 1H-Imidazolium, 1-[1-[4-amino-3,5-bis[2-(trimethylsilyl)ethyl]phenyl]-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

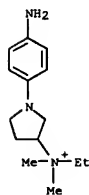
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-32-8 CAPLUS
 CN 1H-Imidazolium,
 1-[[2-[[1-(4-aminophenyl)-3-pyrrolidinyl]amino]-2-oxoethyl]-
 3-methyl-], chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-33-9 CAPLUS
 CN 1H-Imidazolium,
 1-[[2-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]amino]-2-
 oxoethyl]-3-methyl-], chloride (9CI) (CA INDEX NAME)

● Cl⁻

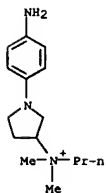
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 701975-34-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, chloride
 (9CI) (CA INDEX NAME)

● Cl⁻

RN 701975-35-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, methyl
 sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1
 CHF C15 H26 N3



CM 2

CRN 21228-90-0
 CHF C H3 O4 S

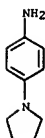
Me=O⁻ SO₃⁻

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

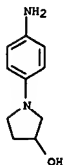
L13 ANSWER 52 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:450587 CAPLUS
 DOCUMENT NUMBER: 141:28203
 TITLE: Hair dyeing compositions comprising a heterocyclic
 dialdehyde and a nitrogen compound
 INVENTOR(S): Plos, Gregory
 PATENT ASSIGNEE(S): L'oreal, Fr.
 SOURCE: Fr. Demande, 21 pp.
 DOCUMENT TYPE: CODEN: FRXXBL
 LANGUAGE: Patent
 FAMILY ACC. NUM. COUNT: French
 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2847809	A1	20040604	FR 2002-15058	20021129
EP 1428504	A1	20040616	EP 2003-292898	20031121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004182735	A2	20040702	JP 2003-402180	20031201
US 2004154109	A1	20040812	US 2003-724083	20031201
PRIORITY APPLN. INFO.:			FR 2002-15058	A 20021129
			US 2002-432981P	P 20021213
			US 2003-439981P	P 20030114

OTHER SOURCE(S): MARPAT 141:28203
 AB Hair dye compns. contain a heterocyclic dialdehyde and at least a
 nitrogen compound Thus, a composition contained 2,3-thiophenedicarboxaldehyde
 6x10⁻³ mole, ammonia 0.8, and water qs to 100 g.
 IT 2632-65-7 503457-32-7
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing compns. comprising heterocyclic dialdehyde and)
 RN 2632-65-7 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 503457-32-7 CAPLUS
 CN 3-Pyrrolidinol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



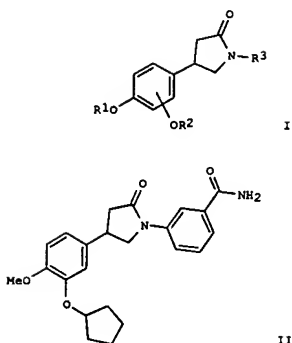
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L13 ANSWER 53 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:370899 CAPLUS
 DOCUMENT NUMBER: 140:391194
 TITLE: Preparation of pyrrolidones with anti-HIV activity
 INVENTOR(S): Wu, Baogen; He, Yun; Ngyuen, Truc; Kuhen, Kelli L.; Ellis, David Archer; Jiang, Tao
 PATENT ASSIGNEE(S): IRM LLC, Bermuda
 SOURCE: PCT Int. Appl., 201 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004037784	A2	20040506	WO 2003-US33560	20031021
WO 2004037784	A3	20040819		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004157859	A1	20040912	US 2003-690873	20031021
PRIORITY APPLN. INFO.:			US 2002-420480P	P 20021021
			US 2002-422619P	P 20021030

OTHER SOURCE(S): MARPAT 140:391194
 GI



AB The present invention relates to inhibition of viruses, e.g., HIV using pyrrolidones I and compds. related to pyrrolidones I [R1 = H, alkyl, cycloalkyl; R2 = (un)substituted Ph, CH2Ph, cycloalkyl; R3 = (un)substituted pyridyl, pyrimidinyl, pyrazinyl, Ph]. The invention further relates to methods for identifying and using agents, including small mol. chemical compns. that inhibit HIV replication in a cell, as well

as to methods of prophylaxis, and therapy related to HIV infection and related disease states such as AIDS. Preparation of the compds. I is described in 28 synthetic examples. Thus, reacting 4-(3-cyclopentyloxy-4-methoxyphenyl)-pyrrolidin-2-one with 3-bromobenzonitrile in the presence of potassium phosphate and trans-1,2-cyclohexanediamine in DMF/dioxane followed by treating a solution of the resulting benzonitrile with 25% NaOH

solution, and then with 35% H2O2 afforded II.

IT 686712-08-3P

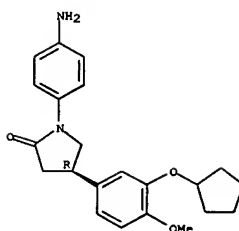
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 4-phenylpyrrolidin-2-ones with anti-HIV activity)

RN 686712-08-3 CAPLUS

CN 2-Pyrrolidinone, 1-(4-aminophenyl)-4-[3-(cyclopentyloxy)-4-methoxyphenyl]-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



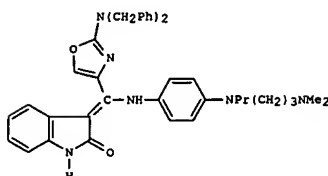
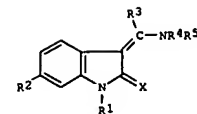
L13 ANSWER 54 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:267298 CAPLUS
DOCUMENT NUMBER: 140:303523
TITLE: Preparation of heterocyclically substituted indolinones as inhibitors of various receptor tyrosine kinases
INVENTOR(S): Kley, Joerg; Heckel, Armin; Hilberg, Frank; Roth, Gerald Juergen; Lehmann-Lintz, Thorsten; Lotz, Ralf
R.
H.; Tontsch-Grunt, Ulrike; Van Meel, Jacobus C. A.
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G., Germany
SOURCE: PCT Int. Appl., 226 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004026829	A2	20040401	WO 2003-EP9978	20030909
WO 2004026829	A3	20041007		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10242350	A1	20040318	DE 2002-10242350	20020912
DE 10252969	A1	20040527	DE 2002-10252969	20021114
CA 2498781	AA	20040401	CA 2003-2498781	20030909
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R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, HK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2006501273	T2	20060112	JP 2004-537020	20030909
PRIORITY APPLN. INFO.:			DE 2002-10242350	A 20020912
			DE 2002-10252969	A 20021114
			WO 2003-EP9978	W 20030909

OTHER SOURCE(S): MARPAT 140:303523
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L13 ANSWER 54 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

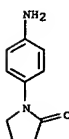
L13 ANSWER 54 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



AB Title compds. I (X = O, S; R1 = H, prodrug residue, such as alkoxycarbonyl, acyl; R2 = H, F, Cl, Br, CN, NO2, (un)substituted CO2H, CONH2; R3 = (un)substituted 5-6-membered heteroaryl; R4 = (un)substituted cycloalkyl, aryl; R5 = H, alkyl) were prepared. I exhibit an inhibiting action on various receptor tyrosine kinases and cyclin-CDK complexes and on the proliferation of endothelial cells and various tumor cells. Thus, 1-acetyl-2-indolinone was treated with 2-dibenzylaminooxazole-4-carboxylic acid to give 1-acetyl-3-[1-hydroxy-1-[2-dibenzylaminooxazol-4-yl]methylene]-2-indolinone which was treated with Me2N(CH2)3NPrC6H4NH2-4 to give the title compound II which had IC50 for inhibition of cell proliferation of 1 nM.

IT RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of heterocyclically substituted indolinones as inhibitors of various receptor tyrosine kinases)

RN 13691-22-0 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 55 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:203176 CAPLUS
DOCUMENT NUMBER: 140:235599
TITLE: Preparation of tricyclic derivatives of indoline or tetrahydroquinoline paraphenylenediamines and their use as dyes for keratinic fibers
INVENTOR(S): Terranova, Eric; Tuloup, Remy; Sabelle, Stephane
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Fr. Demande, 47 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2844272	A1	20040312	FR 2002-11132	20020909
PRIORITY APPLN. INFO.:			FR 2002-11132	20020909

OTHER SOURCE(S): MARPAT 140:235599
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I (wherein n = 0-3; when n ≥ 2, R can be identical or different; R = independently H, (un)substituted aliphatic, alicyclic, saturated or unsatd. hydrocarbon chain with at least one carbon replaced by one or more O, N, Si, S, SO, or SO2; R never is peroxide bond, diazo, NO2, or NO;

R1, R2 = independently H, monohydroxy/polyhydroxy/amino/monoalkylamino/dialkylamino/trialkylamino/polyamino/alkyl, carboxy, monoalkyl/dialkyl/carbamoyl, alkyl/alkoxycarbonyl, OH and derivs., amino, N-alkylimidazolium, (un)substituted mono/di/tri/alkylamino, alkyl; R3 = H,

monohydroxy/polyhydroxy/amino/monoalkylamino/dialkylamino/trialkylamino/polyamino/alkyl, carboxy, monoalkyl/dialkyl/carbamoyl, alkyl/alkoxycarbonyl;

R4 = independently H, monohydroxy/polyhydroxy/amino/monoalkylamino/dialkylamino/trialkylamino/polyamino/alkyl, carboxy, monoalkyl/dialkyl/carbamoyl,

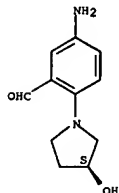
alkyl/alkoxycarbonyl, OH and derivs., amino, N-alkylimidazolium, acetamido, (un)substituted mono/di/tri/alkylamino, alkyl; Y = (CH2)q and derivs.; q = 0 or 1; m = 0-10; when m ≥ 2, R4 can be identical or different; ACNC = 4-7-membered (un)saturated ring heterocycle) were prepared as

oxidation bases for dyeing keratinous fibers, in particular human hair fibers. For example, II·2HCl was prepared, in 4 steps, by alkylation of 3-pyrroline with 2-fluoro-5-nitrobenzaldehyde, condensation with tosylhydrazine, cyclization, and reduction of nitroazacyclopentadiene intermediate. Formulations of II in basic medium gave brownish-red to violet shades. Thus, I are useful to obtain a keratinous fiber color exhibiting a good toxicol. and chromatic prophile.

IT 668987-49-3P 668987-50-6P

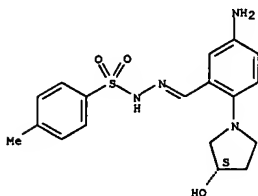
L13 ANSWER 55 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate; prepn. of tricyclic indoline or tetrahydroquinoline
paraphenylenediamines and their use as dyes for keratinic fibers)
RN 668987-49-3 CAPLUS
CN Benzaldehyde, 5-amino-2-[(3S)-3-hydroxy-1-pyrrolidinyl]- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.



RN 668987-50-6 CAPLUS
CN Benzenesulfonic acid, 4-methyl-, [[5-amino-2-[(3S)-3-hydroxy-1-pyrrolidinyl]phenyl]methylene]hydrazide (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L13 ANSWER 56 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:200101 CAPLUS
DOCUMENT NUMBER: 140:235596
TITLE: Preparation of bis-paraphenylenediamines comprising
pyrrolidine groups and their use as dyes for
keratinic fibers
INVENTOR(S): Sabelle, Stephane; Ramos, Laure; Leduc, Madeleine
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXKDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1396486	A1	20040310	EP 2003-292177	20030904
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK	A1	20040312	FR 2002-11133	20020909
FR 2844271	A1	20040312	FR 2002-11133	20020909
US 2004123401	A1	20040701	US 2003-657245	20030909
US 6923835	B2	20050802	FR 2002-11133	A 20020909
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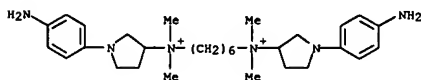
OTHER SOURCE(S): MARPAT 140:235596
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein n, n' = independently 0-4; when n, n' ≥ 2, R1 and R2 can be identical or different; R1, R2 = independently H, (un)substituted aliphatic, alicyclic, saturated or unsatd. hydrocarbon chain with at least one carbon replaced by one or more O, N, Si, S, SO, or SO2; R1 and R2 never include peroxide bond, diazo, NO2, or NO; A = covalent bond or (un)substituted alkylene chain with at least one carbon replaced by an ammonium radical and/or by O, S, Si, CO, SO, SO2; R6, R7 = independently H, CO2H and deriva., alkyl/dialkyl/carbamoyl, trialkylethane, trialkylammonium, N-alkylimidazolium, (un)substituted alkyl, R8, R9 = independently H, OH, alkoxy, monoalkyl/dialkyl/amino, thiol, CO2H and deriva., alkyl/dialkyl/carbamoyl, trialkylethane, trialkylammonium, N-alkylimidazolium, (un)substituted alkyl] were prepared as oxidation bases for dyeing keratinous fibers, in particular human hair fibers. For example, II=C1=2HCl was prepared alkylation of [1-(4-nitrophenyl)pyrrolidin-3-yl]dimethylamine with 1,6-dibromohexane in MeOH at reflux for 6 h, followed by Pd/C hydrogenation at 10 Barr and 65°. Formulations of II in acidic medium gave blue-violet shades.

IT RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of bis-paraphenylenediamines comprising pyrrolidine groups as dyes for keratinic fibers)
RN 667914-89-8 CAPLUS

L13 ANSWER 56 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 1,6-Hexanediaminium, N,N'-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N',N'-tetramethyl-, dichloride, dihydrochloride (9CI) (CA INDEX NAME)



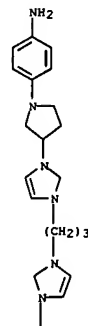
● 2 Cl⁻

● 2 HCl

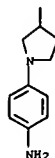
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667914-96-7P, 1,3-Bis[1-(4-aminophenyl)pyrrolidin-3-yl]-1H-imidazol-3-ium chloride 667914-97-8P, 1,4-Bis[1-(4-aminophenyl)pyrrolidin-3-yl]-1,4-dimethylpiperazinedium dichloride 667914-99-0P 667915-01-7P, N,N'-Bis[1-(4-aminophenyl)pyrrolidin-2-yl]methyl]-N,N',N'-tetramethylhexane-1,6-diaminium dichloride 667915-03-9P 667915-05-1P, 1,4-Bis[1-(4-aminophenyl)pyrrolidin-2-yl]methyl]-1,4-dimethylpiperazinedium dichloride 667915-07-3P
667915-09-5P, N,N'-Bis[1-(4-aminophenyl)pyrrolidin-3-yl]-N,N',N'-tetramethylpropane-1,3-diaminium dichloride 667915-11-9P
667915-13-1P, N,N'-Bis[1-(4-aminophenyl)pyrrolidin-2-yl]methyl]-N,N',N'-tetramethylpropane-1,3-diaminium dichloride 667915-15-3P
667915-17-5P, 1,3-Bis[3-[(1-(4-aminophenyl)pyrrolidin-3-yl)amino]propyl]-1H-imidazol-3-ium chloride 667915-18-6P, N,N'-Bis[1-(4-aminophenyl)-5-(hydroxymethyl)pyrrolidin-3-yl]-N,N',N'-tetramethylhexane-1,6-diaminium dichloride 667915-19-7P
667915-20-0P 667915-21-1P, N,N'-Bis[1-(4-aminophenyl)pyrrolidin-3-yl]butane-1,4-diamine 667915-22-2P, 1,3-Bis[1-(4-aminophenyl)pyrrolidin-2-yl]methoxy]propane 667915-23-3P, N,N'-Bis[1-(4-aminophenyl)-4-hydroxypyrrolidin-2-yl]methyl]-N,N',N'-tetramethylpropane-1,3-diaminium dichloride 667915-24-4P, N,N'-Bis[1-(4-aminophenyl)pyrrolidin-3-yl]ethane-1,2-diamine 667915-25-5P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oxidation base in dyeing; preparation of bis-paraphenylenediamines comprising pyrrolidine groups as dyes for keratinic fibers)
RN 667914-90-1 CAPLUS
CN 1H-Imidazolium, 1,1'-[1,3-propanediyl]bis[3-[1-(4-aminophenyl)-3-pyrrolidinyl]-, dibromide, dihydrobromide (9CI) (CA INDEX NAME)

L13 ANSWER 56 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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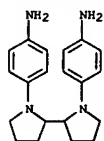
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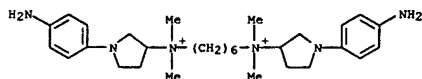
● 2 Br⁻

● 2 HBr

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
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CN Benzenamine, 4,4'-[2,2'-bipyrrrolidinyl]-1,1'-diylbis- (9CI) (CA INDEX NAME)



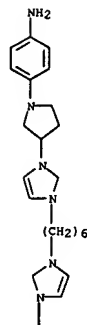
RN 667914-94-5 CAPLUS
 CN 1,6-Hexanediaminium,
 N,N'-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N'-
 tetramethyl-, dichloride (9CI) (CA INDEX NAME)



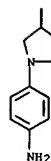
● 2 Cl⁻

RN 667914-95-6 CAPLUS
 CN 1H-Imidazolium, 1,1'-(1,6-hexanediyl)bis[3-[1-(4-aminophenyl)-3-
 pyrrolidinyl]-, dichloride (9CI) (CA INDEX NAME)

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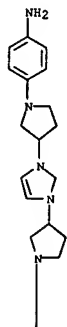
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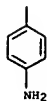
● 2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 667914-96-7 CAPLUS
 CN 1H-Imidazolium, 1,3-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-, chloride
 (9CI) (CA INDEX NAME)

PAGE 1-A



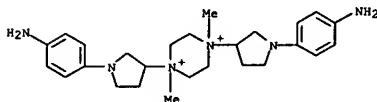
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● Cl⁻

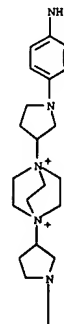
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 667914-97-8 CAPLUS
 CN Piperazinium, 1,4-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-1,4-dimethyl-,
 dichloride (9CI) (CA INDEX NAME)

PAGE 1-A

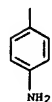


● 2 Cl⁻

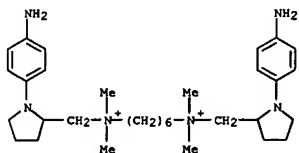
RN 667914-99-0 CAPLUS
 CN 1,4-Diazoniabicyclo[2.2.2]octane, 1,4-bis[1-(4-aminophenyl)-3-
 pyrrolidinyl]-, dichloride (9CI) (CA INDEX NAME)



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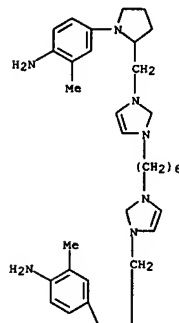
● 2 Cl⁻

RN 667915-01-7 CAPLUS
 CN 1,6-Hexanediaminium, N,N'-bis[[1-(4-aminophenyl)-2-pyrrolidinyl]methyl]-N,N,N',N'-tetramethyl-, dichloride (9CI) (CA INDEX NAME)

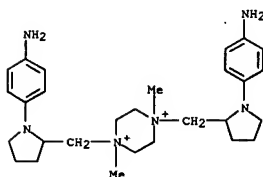
● 2 Cl⁻

RN 667915-03-9 CAPLUS
 CN 1H-Imidazolium, 1,1'-(1,6-hexanediyl)bis[3-[[1-(4-amino-3-methylphenyl)-2-pyrrolidinyl]methyl]-, dichloride (9CI) (CA INDEX NAME)

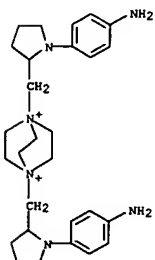
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● 2 Cl⁻

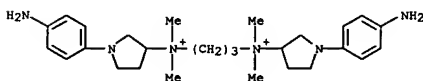
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 667915-05-1 CAPLUS
 CN Piperazininium, 1,4-bis[[1-(4-aminophenyl)-2-pyrrolidinyl]methyl]-1,4-dimethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

RN 667915-07-3 CAPLUS
 CN 1,4-Diazoniabicyclo[2.2.2]octane, 1,4-bis[[1-(4-aminophenyl)-2-pyrrolidinyl]methyl]-, dichloride (9CI) (CA INDEX NAME)

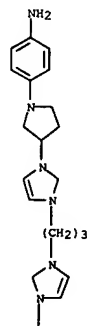
● 2 Cl⁻

RN 667915-09-5 CAPLUS
 CN 1,3-Propanediaminium, N,N'-bis[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N,N',N'-tetramethyl-, dichloride (9CI) (CA INDEX NAME)

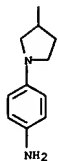
● 2 Cl⁻

RN 667915-11-9 CAPLUS
 CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[[1-(4-aminophenyl)-2-pyrrolidinyl]methyl]-, dichloride (9CI) (CA INDEX NAME)

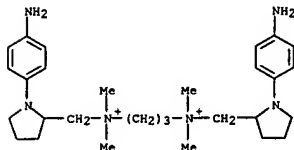
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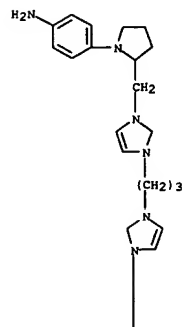
● 2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
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 CN 1,3-Propanediaminium, N,N'-bis[1-(4-aminophenyl)-2-pyrrolidinylmethyl]-N,N,N',N'-tetramethyl-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

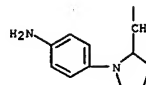
RN 667915-15-3 CAPLUS
 CN 1H-Imidazolium, 1,1'-[(1,3-propanediyl)bis[3-([1-(4-aminophenyl)-2-pyrrolidinylmethyl]-N,N,N',N'-tetramethylammonium)propyl]-, chloride (9CI) (CA INDEX NAME)

PAGE 1-A

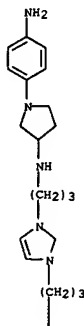
● 2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
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 CN 1H-Imidazolium, 1,3-bis[3-([1-(4-aminophenyl)-2-pyrrolidinylmethyl]-N,N,N',N'-tetramethylammonium)propyl]-, chloride (9CI) (CA INDEX NAME)

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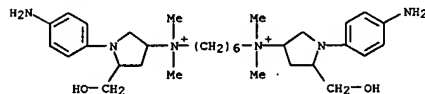


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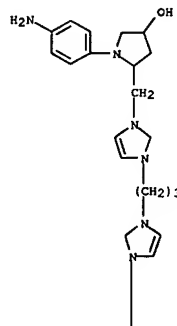
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 667915-18-6 CAPLUS
 CN 1,6-Hexanediaminium, N,N'-bis[1-(4-aminophenyl)-5-(hydroxymethyl)-3-pyrrolidinylmethyl]-, dichloride (9CI) (CA INDEX NAME)

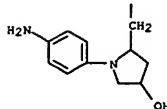
PAGE 1-A

● 2 Cl⁻

RN 667915-19-7 CAPLUS
 CN 1H-Imidazolium, 1,1'-[(1,3-propanediyl)bis[3-([1-(4-aminophenyl)-4-hydroxy-2-pyrrolidinylmethyl]-N,N,N',N'-tetramethylammonium)propyl]-, chloride (9CI) (CA INDEX NAME)

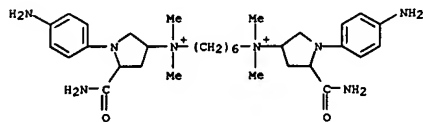


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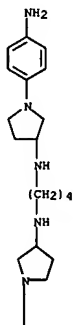


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 667915-20-0 CAPLUS
 CN 1,6-Hexanediaminium, N,N'-bis[5-(aminocarbonyl)-1-(4-aminophenyl)-3-pyrrolidiny]-N,N,N',N'-tetramethyl-, dichloride (9CI) (CA INDEX NAME)

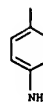
● 2 Cl⁻

RN 667915-21-1 CAPLUS
 CN 1,4-Butanediamine, N,N'-bis[1-(4-aminophenyl)-3-pyrrolidiny]- (9CI) (CA INDEX NAME)

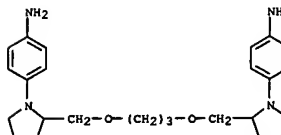


PAGE 1-A

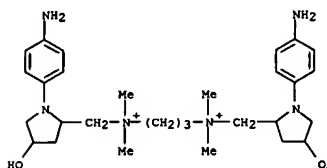
PAGE 2-A



RN 667915-22-2 CAPLUS
 CN Benzenamine, 4,4'-[1,3-propanediylbis(oxyethylene-2,1-pyrrolidinediyl)]bis- (9CI) (CA INDEX NAME)

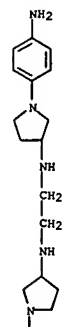


RN 667915-23-3 CAPLUS
 CN 1,3-Propanediaminium, N,N'-bis[[1-(4-aminophenyl)-4-hydroxy-2-pyrrolidiny]methyl]-N,N,N',N'-tetramethyl-, dichloride (9CI) (CA INDEX NAME)

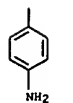
● 2 Cl⁻

RN 667915-24-4 CAPLUS
 CN 1,2-Ethanediamine, N,N'-bis[1-(4-aminophenyl)-3-pyrrolidiny]- (9CI) (CA INDEX NAME)

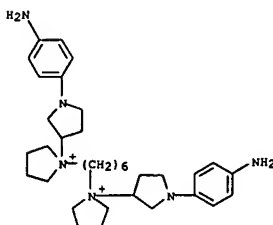
PAGE 1-A



PAGE 2-A



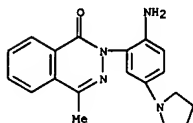
RN 667915-25-5 CAPLUS
 CN 1,3'-Bipyrrolidinium, 1,1''-(1,6-hexanediyl)bis[1'-(4-aminophenyl)-, dichloride (9CI) (CA INDEX NAME)

● 2 Cl⁻

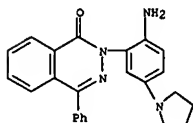
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 57 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2004:74759 CAPLUS
DOCUMENT NUMBER: 140:303617
TITLE: Synthesis of benzo[4,5]imidazo[2,1-a]phthalazines
AUTHOR(S): Shubin, Kirill M.; Kuznetsov, Viktor A.; Galishev, Vladimir A.
CORPORATE SOURCE: Saint-Petersburg State Institute of Technology (Technical University), Saint-Petersburg, 190013, Russia
SOURCE: Tetrahedron Letters (2004), 45(7), 1407-1408
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:303617

AB 5,9-Di-substituted benzo[4,5]imidazo[2,1-a]phthalazines are synthesized efficiently from acylbenzoic acids and 2-nitro-5-chlorophenylhydrazine. Nucleophilic substitution in phthalazinones gave a variety of the title compds. after reduction and cyclization.
IT 676562-68-8P 676562-71-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzo[4,5]imidazo[2,1-a]phthalazines starting from acylbenzoic acids and 2-nitro-5-chlorophenylhydrazine)
RN 676562-68-8 CAPLUS
CN 1(2H)-Phthalazinone, 2-[2-amino-5-(1-pyrrolidinyl)phenyl]-4-methyl- (9CI) (CA INDEX NAME)

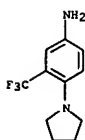


RN 676562-71-3 CAPLUS
CN 1(2H)-Phthalazinone, 2-[2-amino-5-(1-pyrrolidinyl)phenyl]-4-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 58 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
kinases, in particular tyrosine kinases for treating neoplastic diseases, esp. leukemia. II was prepd. by amidation of
4-Methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]benzoic acid (prepn. given) with N,N-diethyl-1,3-benzenediamine in the presence of propylphosphonic anhydride/TEA/DMF at room temp. for 24 h. In an in vitro test, II inhibited C-Abl, KDR, and Flt3 tyrosine kinase in 98%, 88%, and 41% resp. I exhibited IC50 values for the inhibition of Flt-3 VEGF receptor tyrosine kinase in the range of 1-10,000 nM, preferably in the range of 1-100 nM. Thus, I and their pharmaceutical compns. are useful for treatment of neoplasm, in particular leukemia.
IT 16085-45-3, 4-(1-Pyrrolidinyl)-3-(trifluoromethyl)benzenamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of pyrimidinylaminobenzamides as inhibitors of tyrosine kinases in particular tyrosine kinases for treatment of leukemia)
RN 16085-45-3 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 58 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2004:41463 CAPLUS
DOCUMENT NUMBER: 140:77161
TITLE: Preparation of pyrimidinylaminobenzamides as inhibitors of protein kinases, in particular tyrosine kinases for treating neoplasm, especially leukemia
Breitenstein, Werner; Furet, Pascal; Jacob, Sandra; Manley, Paul William
Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
PCT Int. Appl., 83 pp.
CODEN: PIXXD2
Patent
English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004005281	A1	20040115	WO 2003-EPT198	20030704
WO 2004005281	C1	20040506		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MY, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SY, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW			
RW:	AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR			
CA 2491632	AA	20040115	CA 2003-2491632	20030704
BR 2003012464	A	20050503	BR 2003-12464	20030704
EP 1532138	A1	20050525	EP 2003-762632	20030704
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 200553827	T2	20051110	JP 2004-518718	20030704
NO 200500636	A	20050204	NO 2005-636	20050204
PRIORITY APPLN. INFO.:			GB 2002-15676	A 20020705
			GB 2002-29893	A 20021220
			WO 2003-EPT198	W 20030704

OTHER SOURCE(S): MARPAT 140:77161
GI

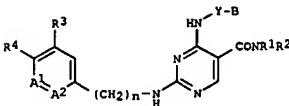
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein R1 = H, alkoxy/carboxy/alkoxycarbonyl/phenyl/alkyl; R2 = H, (un)substituted cyclo/benzocyclo/alkyl, heterocyclyl, aryl, mono- or bicyclic heteroaryl; R1R2 = (un)substituted alkylene with 4-6 C atoms, benzalkylene with 4 or 5 C atoms, oxalkylene with one O and 3 or 4 C atoms, azaalkylene with one N and 3 or 4 C atoms where N is (un)substituted by phenyl/alkoxy/carboxy/carbamoyl/alkyl, alkoxy/carboxy, (un)substituted Ph, pyridyl, pyrimidinyl, pyrazinyl, etc.; R4 = H, alkyl, halo; their N-oxides, tautomers, and pharmaceutical acceptable salts] were prepared as inhibitors of protein

L13 ANSWER 59 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2004:20665 CAPLUS
DOCUMENT NUMBER: 140:94057
TITLE: Preparation of 2,4-diaminopyrimidine-5-carboxamide derivatives as inhibitors of signal transducer and activator of transcription (STAT6)
Nagashima, Shinya; Nagata, Hiroshi; Iwata, Masahiro; Yokota, Masaki; Morimoto, Hiroyuki; Nakai, Eiichi; Kuromitsu, Sadao; Ohga, Keiko; Takeuchi, Makoto
Yamanouchi Pharmaceutical Co., Ltd., Japan
PCT Int. Appl., 102 pp.
CODEN: PIXXD2
Patent
Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004002964	A1	20040108	WO 2003-JP8129	20030626
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MY, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2490888	AA	20040108	CA 2003-2490888	20030626
AU 2003244098	A1	20040119	AU 2003-244098	20030626
EP 1518855	A1	20050330	EP 2003-761820	20030626
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
CN 1665789	A	20050907	CN 2003-815071	20030626
US 2005272753	A1	20051208	US 2004-518043	20041216
PRIORITY APPLN. INFO.:			JP 2002-190959	A 20020628
			WO 2003-JP8129	W 20030626

OTHER SOURCE(S): MARPAT 140:94057
GI



AB Disclosed are STAT6 activation inhibitors containing 2-(arylamino or arylethylamino)-4-aminopyrimidine-5-carboxamide deriva.[I: A1 = CR3, N; R5

L13 ANSWER 59 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 = H, lower alkyl, lower alkoxy, halo; A2 = CR₆, N; R₆ = H, halo; R₃ = R, lower haloalkyl, halo, OR, lower alkylthio, lower alkyl-carbonyl, lower alkoxy-carbonyl, lower hydroxyalkyl, heterocyclyl, heterocyclyloxy, NR-heterocyclyl, heterocyclyl-lower alkyl, heterocyclyl-lower alkoxy, heterocyclyl-lower alkylthio, heterocyclyl-lower alkylsulfinyl, heterocyclyl-lower alkylsulfonyl, etc.; R = H, lower alkyl; n = 0, 2; when n = 2, R₄ = R, lower haloalkyl, OR, NRCHO, NR-CO-lower alkyl, NR-SO₂-lower alkyl, etc.; when n = 0, R₄ = H, lower haloalkyl, HO, NHCHO, CONR₂, lower haloalkyl, amino-lower alkyl, ureido-lower alkyl, carboxy-lower alkyl, lower alkoxy-carbonyl-lower alkyl, cyano-lower alkyl, bis(hydroxy-lower alkyl)methyl, etc.; R₁, R₂ = H, (unsubstituted lower alkyl or alkoxy; B = H, lower alkenyl, lower alkynyl, halo-lower alkyl, cyano, lower alkylthio, each (un)substituted aryl, cycloalkyl, or heterocyclyl; Y = a single bond, (un)substituted lower alkylene) or pharmaceutically acceptable salts thereof and carriers. The said STAT6 activation inhibitors are differentiation inhibitors for Th2 cell, preventives and/or therapeutics for respiratory diseases, in particular asthma and chronic obstructive pulmonary diseases. Thus, 765 mg 2-(3-chloro-4-hydroxyphenyl)ethylamine hydrochloride and 1.07 mL diisopropylethylamine were added to a soln. of 4-benzylamino-2-methylsulfonylpyrimidine-5-carboxamide in 8 mL N-methylpyrrolidone and stirred at 110° for 1 h to give, after workup and silica gel chromatog., 4-benzylamino-2-[[2-(3-chloro-4-hydroxyphenyl)ethyl]amino]pyrimidine-5-carboxamide (II). II and 4-benzylamino-2-[[4-(morpholin-4-yl)phenyl]amino]pyrimidine-5-carboxamide inhibited the STAT6 activation by 89 and 100%, resp., at 0.1 µM, in a STAT6-dependent reporter assay using STAT6 reporter CI/FW cells.
 IT 643087-09-6P 643087-77-8P 643087-83-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of diaminopyrimidinecarboxamide derivs. as inhibitors of signal transducer and activator of transcription (STAT6), Th2 cell differentiation inhibitors, and preventives and/therapeutics for respiratory diseases)
 RN 643087-09-6 CAPLUS
 CN 3-Pyrrolidinecarbonitrile, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

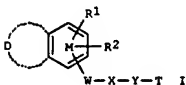


RN 643087-77-8 CAPLUS
 CN Acetamide, N-[1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 60 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 ACCESSION NUMBER: 2004:20490 CAPLUS
 DOCUMENT NUMBER: 140:77148
 TITLE: Preparation of N-[4-(thioxoheterocyclyl)phenyl]-2-phenyl-2H-pyrazole-3-carboxamides and corresponding imino-heterocyclyl derivatives as inhibitors of the coagulation factors Xa and/or VIIa for treating thrombosis
 INVENTOR(S): Cezanne, Bertram; Dorsch, Dieter; Mederski, Werner; Tsaklakidis, Christos; Gieitz, Johannes; Barnes, Christopher
 PATENT ASSIGNEE(S): Merck Patent GmbH, Germany
 SOURCE: PCT Int. Appl., 82 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

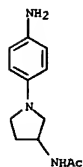
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004002477	A1	20040108	WO 2003-EP5898	20030605
WO 2004002477	C1	20040415		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10229070	A1	20040115	DE 2002-10229070	20020628
CA 2491271	AA	20040108	CA 2003-2491271	20030605
AU 2003238475	A1	20040119	AU 2003-238475	20030605
EP 1517685	A1	20050330	EP 2003-732540	20030605
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 200533630	T2	20051124	JP 2004-516375	20030605
US 2005203127	A1	20050915	US 2004-519356	20041228
PRIORITY APPLN. INFO.:			DE 2002-10229070	A 20020628
			WO 2003-EP5898	W 20030605

OTHER SOURCE(S): MARPAT 140:77148
 GI

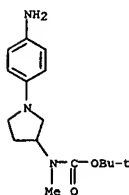


AB Title compds. [I: D = (N-, O-, S-interrupted) (substituted) C3-4 alkylene;
 M = Ph, aromatic heterocyclyl; R₁, R₂ = H, halo, (branched) (interrupted)

L13 ANSWER 59 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

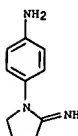


RN 643087-83-6 CAPLUS
 CN Carbamic acid, [1-(4-aminophenyl)-3-pyrrolidinyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



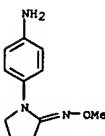
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 60 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 (substituted) alkyl, NO₂, cyano, OR₃, N(R₃)₂, CO₂R₃, CON(R₃)₂, C(S)N(R₃)₂, etc.; R₃ = H, (branched) (interrupted) (substituted) alkyl, etc.; W = (substituted) (bi)cyclic arom. (hetero)cyclyl; X = CONR₃, CONR₃(R₄)₂, C(R₄)₂NR₃, etc.; R₄ = H, (branched) (interrupted) (substituted) alkyl; Y = alkylene, cycloalkylene, heterodiy, arylidyl; T = (substituted) (bi)cyclic arom. heterocyclyl, were prep. Thus, 333 mg (3-[5-(4-[2-iminopyrrolidin-1-yl]phenyl)carbamoyl]-3-trifluoromethylpyrazol-1-yl]benzyl)carbamoyl acid tert-Bu ester (prepn. given) in EtOH was treated with HCl in ether to give 289 mg N-[4-(2-iminopyrrolidin-1-yl)phenyl]-1-(3-aminomethylphenyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide. The latter gave affinity to the receptor Xa with IC₅₀ = 9.6·10⁻⁹ M and to the receptor VIIa with IC₅₀ = 2.3·10⁻⁸ M.
 IT 625101-83-9 625101-85-1 640288-02-4
 640288-04-6 640288-08-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of (thioxoheterocyclylphenyl) (phenylpyrazole)carboxamides and corresponding imino-heterocyclyl derivs. as inhibitors of the coagulation factors Xa and/or VIIa for treating thrombosis)
 RN 625101-83-9 CAPLUS
 CN Benzenamine, 4-(2-imino-1-pyrrolidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)

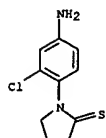


● HCl

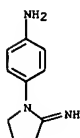
RN 625101-85-1 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)-, O-methyloxime (9CI) (CA INDEX NAME)



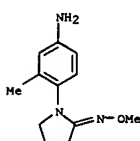
RN 640288-02-4 CAPLUS



RN 640288-04-6 CAPLUS
 CN Benzenamine, 4-(2-imino-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 640288-08-0 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-2-methylphenyl)-, O-methyloxime (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

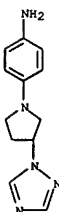
L13 ANSWER 61 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:17396 CAPLUS
 DOCUMENT NUMBER: 140:81854
 TITLE: Hair dyeing compositions containing pyrrolidinyl-p-phenylenediamine derivatives
 INVENTOR(S): Sabelle, Stephane; Ramos, Laure; Leduc, Madeleine
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: Eur. Pat. Appl., 21 pp.
 CODEN: EPKXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1378230	A1	20040107	EP 2003-291616	20030701
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2841780	A1	20040109	FR 2002-8514	20020705
FR 2841780	B1	20040910		
JP 2004035559	A2	20040205	JP 2003-271500	20030707
US 2004077852	A1	20040422	US 2003-612986	20030707
PRIORITY APPLN. INFO.:			FR 2002-8514	A 20020705
			US 2002-408900P	P 20020909

OTHER SOURCE(S): MARPAT 140:81854
 AB Pyrrolidinyl-p-phenylenediamine derivs. are useful for the dyeing of human hair fibers. Thus, 4-(3-imidazol-1-ylpyrrolidin-1-yl)phenylamine-HCl was prepared by the mesylation of N-(4-nitrophenyl)-3-hydroxypyrrrolidine in THF in the presence of Et3N followed by the reaction of the product with imidazole and hydrogenation. A formulation contained the above compound 0.001, 2-(2,4-diaminophenoxyethanol)-2HCl 0.001, a support formulation and water 99 to 100 g.

IT 640725-42-4 640725-44-6 640725-45-7
 640725-46-8 640725-47-9 640725-48-0
 640725-49-1 640725-50-4 640725-52-6
 640725-53-7 640725-54-8 640725-55-9
 640725-56-0 640725-57-1 640725-58-2
 640725-59-3 640725-60-6 640725-61-7
 640725-62-8

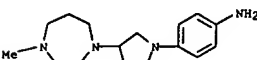
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair dyeing compns. containing pyrrolidinylphenylenediamine derivs.)
 RN 640725-42-4 CAPLUS
 CN Benzenamine, 4-[3-(1H-1,2,4-triazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



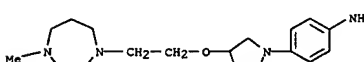
RN 640725-44-6 CAPLUS
 CN Benzenamine, 4-[3-(4-methyl-1-piperazinyl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



RN 640725-45-7 CAPLUS
 CN Benzenamine, 4-[3-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)

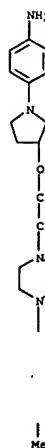


RN 640725-46-8 CAPLUS
 CN Benzenamine, 4-[3-[2-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)ethoxy]-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



RN 640725-47-9 CAPLUS
 CN Benzenamine, 4-[3-[2-(4-methyl-1-piperazinyl)ethoxy]-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

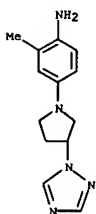
RN 640725-48-0 CAPLUS
 CN Benzenamine, 4-[3-[2-(1-pyrrolidinyl)ethoxy]-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



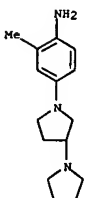
RN 640725-49-1 CAPLUS
CN Benzenamine, 4-[3-[2-(1-piperidinyl)ethoxy]-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



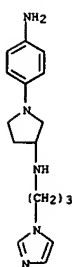
RN 640725-50-4 CAPLUS
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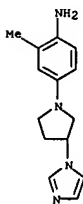
RN 640725-54-8 CAPLUS
CN Benzenamine, 4-[1,3'-bipyrrolidin]-1'-yl-2-methyl- (9CI) (CA INDEX NAME)



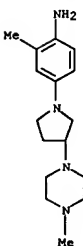
RN 640725-55-9 CAPLUS
CN Benzenamine, 2-methyl-4-[3-(4-methyl-1-piperazinyl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



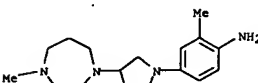
RN 640725-52-6 CAPLUS
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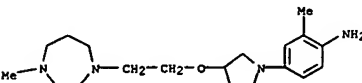
RN 640725-53-7 CAPLUS
CN Benzenamine, 2-methyl-4-[3-(1H-1,2,4-triazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



RN 640725-56-0 CAPLUS
CN Benzenamine, 4-[3-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-1-pyrrolidinyl]-2-methyl- (9CI) (CA INDEX NAME)

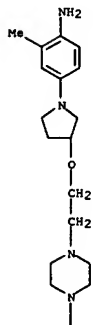


RN 640725-57-1 CAPLUS
CN Benzenamine, 4-[3-[2-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)ethoxy]-1-pyrrolidinyl]-2-methyl- (9CI) (CA INDEX NAME)



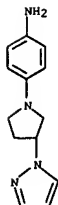
RN 640725-58-2 CAPLUS
CN Benzenamine, 2-methyl-4-[3-[2-(4-methyl-1-piperazinyl)ethoxy]-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

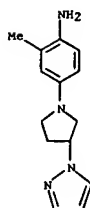


PAGE 2-A

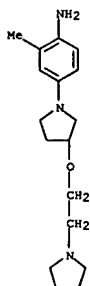
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CN Benzenamine, 4-[3-(1H-pyrazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



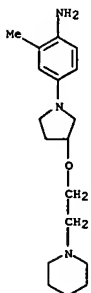
RN 640725-60-6 CAPLUS
CN Benzenamine, 2-methyl-4-[3-(1H-pyrazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



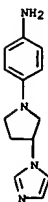
RN 640725-61-7 CAPLUS
CN Benzenamine, 2-methyl-4-[3-(2-(1-pyrrolidinyl)ethoxy)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



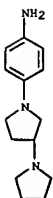
RN 640725-62-8 CAPLUS
CN Benzenamine, 2-methyl-4-[3-(2-(1-piperidyl)ethoxy)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



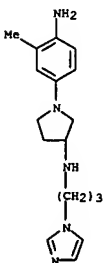
IT 640725-40-2P 640725-43-5P 640725-51-5P
640725-65-1P 640725-66-2P 640725-68-4P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hair dyeing comps. containing pyrrolidinylphenylenediamine derivs.)
RN 640725-40-2 CAPLUS
CN Benzenamine, 4-[3-(1H-imidazol-1-yl)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



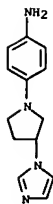
RN 640725-43-5 CAPLUS
CN Benzenamine, 4-[1,3'-bipyrrolidin]-1'-yl- (9CI) (CA INDEX NAME)



RN 640725-51-5 CAPLUS
CN 1H-imidazole-1-propanamine,
N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

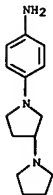


RN 640725-65-1 CAPLUS
CN Benzenamine, 4-[3-(1H-imidazol-1-yl)-1-pyrrolidinyl]-, monohydrochloride (9CI) (CA INDEX NAME)



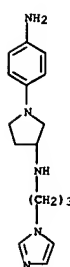
● HCl

RN 640725-66-2 CAPLUS
CN Benzenamine, 4-([1,3'-bipyrrolidin]-1'-yl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 640725-68-4 CAPLUS
CN 1H-Imidazole-1-propanamine, N-(1-(4-aminophenyl)-3-pyrrolidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

ACCESSION NUMBER: 2004:5171 CAPLUS
DOCUMENT NUMBER: 140:59513
TITLE: Preparation of p-aminophenylsilylpyrrolidines as dyes for keratinic fibers, in particular human hair fibers
INVENTOR(S): Sabelle, Stephane; Ramos, Laure; Leduc, Madeleine
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1375480	A1	20040102	EP 2003-291436	20030613
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2841553	A1	20040102	FR 2002-7939	20020626
FR 2841553	B1	20060106		
JP 2004051632	A2	20040219	JP 2003-183037	20030626
US 2004060127	A1	20040401	US 2003-603831	20030626
PRIORITY APPLN. INFO.:			FR 2002-7939	A 20020626
			US 2002-408899P	P 20020909

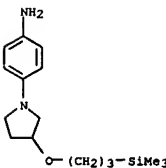
OTHER SOURCE(S): MARPAT 140:59513
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein n = 0-4; R1 = halo, (un)substituted (un)saturated aliphatic or alicyclic chain with at least one C optionally replaced by one or more O, N, Si, S, SO2; R1 never include peroxide bond, diazo, NO2, or NO; when n > 2, R1 radicals can be identical or different; R2 = SiR3R4R5, (un)substituted unsatd., linear or branch alkyl, substituted with -SiR3R4R5 with at least one C optionally replaced by one or more O and/or N, triarylsilyl, triarylsilylalkyl, triarylsilylalkoxy, triarylsilylalkylamino, bis(triarylsilylalkyl)amino; R3, R4, R5 = independently trialkylsilyl, triphenylsilyl, Ph, (un)substituted alkyl; and their addition salts; with the exception of 5-amino-2-((3R)-3-tert-butylidimethylsilyloxy-1-pyrrolidinyl)fluorobenzene] were prepared as oxidation bases for dyeing keratinous fibers, in particular human hair fibers. Thus, reacting 1-fluoro-4-nitrobenzene with 3-pyrrolidinol in dioxane/water, followed by O-alkylation with 3-chloropropyltrimethylsilane in DMF and reduction with Zn/NH4Cl in ethanol afforded II=2HCl. Formulations of II in alkaline medium gave blue-violet shades.

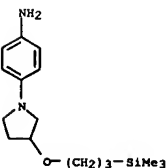
IT 638564-17-7P 638564-19-9P, 4-([3-(3-Trimethylsilylpropoxy)pyrrolidin-1-yl]phenylamine 638564-20-2P, 4-([3-(3-Trimethylsilylpropoxy)pyrrolidin-1-yl]phenylamine 638564-21-3P, 4-([3-((Trimethylsilyl)methyl)oxy]pyrrolidin-1-yl]phenylamine 638564-22-6P, 4-([3-((Trimethylsilyl)methyl)amino]pyrrolidin-1-yl]phenylamine 638564-23-5P, 4-([3-((Trimethylsilyl)methyl)pyrrolidin-1-yl]phenylamine 638564-24-6P, [1-(4-Aminophenyl)pyrrolidin-3-yl]-bis(trimethylsilylmethyl)amine 638564-25-7P, 2-(2-Trimethylsilylethyl)-4-([3-(3-Trimethylsilylpropoxy)pyrrolidin-1-yl]phenylamine 638564-26-8P, 4-([3-(2-Trimethylsilylethoxy)pyrrolidin-1-yl]phenylamine 638564-27-9P, 4-([3-(3-Triphenylsilylpropoxy)pyrrolidin-1-yl]phenylamine 638564-17-7 CAPLUS
CN Benzenamine, 4-([3-(3-(trimethylsilyl)propoxy)-1-pyrrolidinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

idin-1-yl]phenylamine 638564-24-6P, [1-(4-Aminophenyl)pyrrolidin-3-yl]-bis(trimethylsilylmethyl)amine 638564-25-7P, 2-(2-Trimethylsilylethyl)-4-([3-(3-Trimethylsilylpropoxy)pyrrolidin-1-yl]phenylamine 638564-26-8P, 4-([3-(2-Trimethylsilylethoxy)pyrrolidin-1-yl]phenylamine 638564-27-9P, 4-([3-(3-Triphenylsilylpropoxy)pyrrolidin-1-yl]phenylamine 638564-17-7 CAPLUS
CN Benzenamine, 4-([3-(3-(trimethylsilyl)propoxy)-1-pyrrolidinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

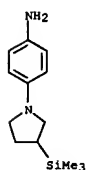


●2 HCl

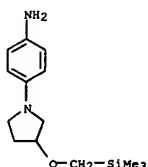
RN 638564-19-9 CAPLUS
CN Benzenamine, 4-([3-(3-(trimethylsilyl)propoxy)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



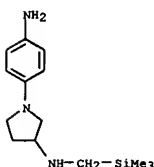
RN 638564-20-2 CAPLUS
CN Benzenamine, 4-([3-(3-(trimethylsilyl)propoxy)-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)



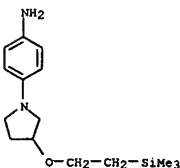
RN 638564-21-3 CAPLUS
CN Benzenamine, 4-[(3-[(trimethylsilyl)methoxy]-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



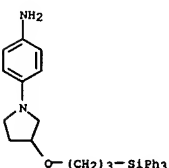
RN 638564-22-4 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-N-[(trimethylsilyl)methyl]- (9CI) (CA INDEX NAME)



RN 638564-23-5 CAPLUS
CN Benzenamine, 4-[(3-[(trimethylsilyl)methyl]-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

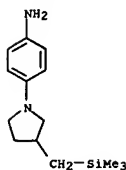


RN 638564-27-9 CAPLUS
CN Benzenamine, 4-[(3-[(triphenylsilyl)propoxy]-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

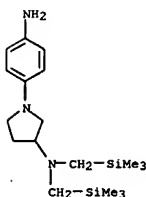


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

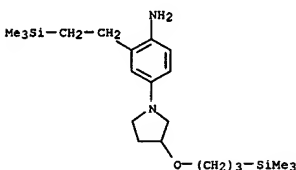
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RN 638564-24-6 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-N-bis[(trimethylsilyl)methyl]- (9CI) (CA INDEX NAME)



RN 638564-25-7 CAPLUS
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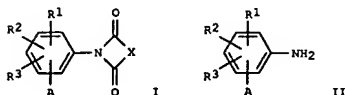


RN 638564-26-8 CAPLUS
CN Benzenamine, 4-[(3-[(trimethylsilyl)ethoxy]-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2003:931329 CAPLUS
DOCUMENT NUMBER: 139:395826
TITLE: Method for producing cyclic imides by reacting a primary amine with dicarboxylic acid in the presence of polyphosphoric acid
INVENTOR(S): Mederski, Werner; Baumgarth, Manfred; Germann, Martina; Kux, Dieter; Weitzel, Thomas
PATENT ASSIGNEE(S): Merck Patent GmbH, Germany
SOURCE: PCT Int. Appl., 26 pp.
DOCUMENT TYPE: CODEN: PIXXD2
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003097600	A1	20031127	WO 2003-EP3584	20030407
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NI, NL, NO, NZ, OM, PA, PE, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2486148	AA	20031127	CA 2003-2486148	20030407
AU 2003227570	A1	20031202	AU 2003-227570	20030407
EP 1506173	A1	20050216	EP 2003-724968	20030407
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005182260	A1	20050818	US 2003-514888	20030407
JP 2005532325	T2	20051027	JP 2004-505333	20030407
PRIORITY APPLN. INFO.: DE 2002-1022277 A 20020518				
WO 2003-EP3584 W 20030407				

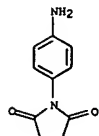
OTHER SOURCE(S): HARPAT 139:395826
GI



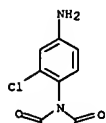
AB Cyclic imides I [R1-R3 = H, F, Cl, Br, I, alkyl, alkyloxy, alkylcarbonyl, alkylcarbonyloxy, aryl, CO2H, arylcarbonyl, OCF3, CF3, cyano, OCHF2, etc.;
A = H, NO2, amino, NH(CO)R4; R4 = 2-phenoxy-2-arylacetyl, etc.; X = (CH2)3, (CH2)2, CH:CH, etc.], were prepared by reacting an amine II (R1-R3

L13 ANSWER 63 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
and A as above) with a dicarboxylic acid in the presence of

polyphosphoric acid. Thus, 4-nitroaniline was stirred with glutaric acid and polyphosphoric acid for 12 h at 80° to give 96.7% 1-(4-nitrophenyl)piperidine-2,6-dione. The latter in THF was hydrogenated with Raney Ni and H₂ under stirring at normal pressure to give 84.9% 1-(4-aminophenyl)piperidine-2,6-dione.
IT 34373-09-6P 35581-02-3P 91091-19-9P 444002-89-5P 544445-47-8P 544445-48-9P 544445-49-0P 627085-91-0P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(method for producing cyclic imides by reacting primary amine with dicarboxylic acid in presence of polyphosphoric acid)
RN 34373-09-6 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

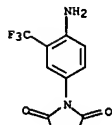


RN 35581-02-3 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(4-amino-2-chlorophenyl)- (9CI) (CA INDEX NAME)

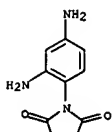


RN 91091-19-9 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(4-amino-2-methylphenyl)- (9CI) (CA INDEX NAME)

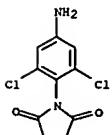
L13 ANSWER 63 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 544445-49-0 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(2,4-diaminophenyl)- (9CI) (CA INDEX NAME)

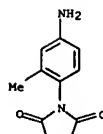


RN 627085-91-0 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(4-amino-2,6-dichlorophenyl)- (9CI) (CA INDEX NAME)

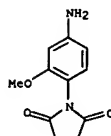


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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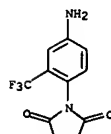
L13 ANSWER 63 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 444002-89-5 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(4-amino-2-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 544445-47-8 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[4-amino-2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



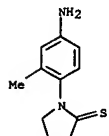
RN 544445-48-9 CAPLUS
CN 2,5-Pyrrolidinedione, 1-[4-amino-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 64 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:892749 CAPLUS
DOCUMENT NUMBER: 139:381378
TITLE: Preparation of carboxylic acid amides as inhibitors of blood-coagulation factor Xa and VIIa
INVENTOR(S): Dorach, Dieter; Mederaki, Werner; Gleitz, Johannes; Cezanne, Bertram; Tsaklaidis, Christos; Barnes, Christopher
PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
SOURCE: PCT Int. Appl., 79 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

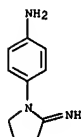
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003093235	A1	20031113	WO 2003-EP3331	20030331
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10218974	A1	20031127	DE 2002-10218974	20020427
DE 10236868	A1	20040226	DE 2002-10236868	20020812
CA 2483228	AA	20031113	CA 2003-2483228	20030331
AU 2003226755	A1	20031117	AU 2003-226755	20030331
EP 1499591	A1	20050126	EP 2003-747402	20030331
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005171154	A1	20050804	US 2003-512478	20030331
JP 200531547	T2	20051020	JP 2004-501374	20030331
PRIORITY APPLN. INFO.:			DE 2002-10218974	A 20020427
			DE 2002-10236868	A 20020812
			WO 2003-EP3331	W 20030331

OTHER SOURCE(S): MARPAT 139:381378
AB Carboxylic acid amides DNHC(O)CH₂CH₂(O)NH₂ [D = (substituted) Ph, pyridyl, thienyl; X = NR₃, O; R₁ = H, Ar, Het, cycloalkyl, (substituted) Ar; W = (C(R₃)₂)_n; Y = alkylene, cycloalkylene, Het-diyl, Ar-diyl; T = (bicyclic) (substituted) heterocyclyl; R₃ = H, Ar; A = (branched) (interrupted) (fluorinated) C1-10 alkyl; Ar = (substituted) Ph, naphthyl, biphenyl; Het = (bicyclic) (substituted) heterocyclyl; n = 0-2], were prepared for treating thrombosis and tumors. Thus, (R)-2-[N-(4-chlorophenyl)-carbamoyloxy]-N-[4-(2-iminopiperidin-1-yl)phenyl]-2-phenylacetamide (preparation given) in HCl was lyophilized to give (R)-2-[N-(4-chlorophenyl)-carbamoyloxy]-N-[4-(2-iminopiperidin-1-yl)phenyl]-2-phenylacetamide hydrochloride. The latter showed affinity to the receptor Xa with IC₅₀ = 5.8·10⁻⁸ M and to the receptor VIIa with IC₅₀ = 9.9·10⁻⁸ M.
IT 625102-14-9

L13 ANSWER 64 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of carboxylic acid amides as inhibitors of blood-coagulation factor Xa and VIIa)
 RN 625102-14-9 CAPLUS
 CN 2-Pyrrolidinethione, 1-(4-amino-2-methylphenyl)- (9CI) (CA INDEX NAME)



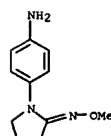
IT 625101-83-9F 625101-85-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of carboxylic acid amides as inhibitors of blood-coagulation factor Xa and VIIa)
 RN 625101-83-9 CAPLUS
 CN Benzenamine, 4-(2-imino-1-pyrrolidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 625101-85-1 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)-, O-methyloxime (9CI) (CA INDEX NAME)

L13 ANSWER 64 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

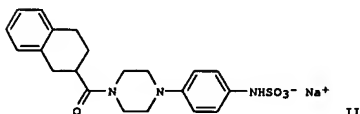


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L13 ANSWER 65 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:796468 CAPLUS
 DOCUMENT NUMBER: 139:307608
 TITLE: Preparation of sodium sulfamic acid salts as inhibitors of human cytoplasmic protein tyrosine phosphatases for the treatment of wounds and of damaged tissues
 INVENTOR(S): Sankar, Sabita; Raheja, Raj K.; Newman, Michael J.; Bhat, Abhijit S.; Slee, Deborah H.; Lee, Kyung Joo; Lee, Younghee N.; McConnell, Stephen J.; Coats, Eugene
 A.; Nguyen, Truc; Soll, Richard; Smith, Mark; Short, Kevin M.; Lligsay, Kathleen J.
 PATENT ASSIGNEE(S): Ontogen Corporation, USA; et al.
 SOURCE: PCT Int. Appl., 110 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082263	Al	20031009	WO 2003-US9750	20030328
WO 2003082263	Cl	20040422		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZH, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003222127	Al	20031013	AU 2003-222127	20030328
PRIORITY APPLN. INFO.:			US 2002-368901P	P 20020329
			US 2002-431950P	P 20021209
			WO 2003-US9750	W 20030328

OTHER SOURCE(S): MARPAT 139:307608
 GI



AB Sodium sulfamates (R1Y1)(R2Y2)X-T-NHSO3-Na+ I [R, R1, R2 = H, (un)substituted alkyl, cycloalkyl, aralkyl, heteroarylalkyl, alkylaryl,

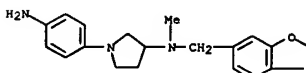
L13 ANSWER 65 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 alkylheteroaryl, alkylcarboxyalkyl, alkoxyalkyl, arylalkoxyalkyl, heteroarylalkoxyalkyl; R3, R7 = (un)substituted aralkyl, heteroarylalkyl, alkyl; R4, R5, R6 = alkyl, aralkyl, heteroarylalkyl, R7Y1; T = single bond, NH; X = (un)substituted Ph, pyridyl, pyrimidinyl, furyl, thienyl, indolyl, thiazolyl, imidazolyl, oxazolyl, isoxazolyl; Y1 = single bond, (un)substituted NHC(:O), NHC(:S), O(C:O), NHC(:O)NH, NHC(:S)NH, NHSO2, NHSO, O, NH; Y2 = (un)substituted NHC(:O), NHC(:S), O(C:O), NHC(:O)NH, NHC(:S)NH, NHSO2, NHSO, O, NH, O2CH:CHY1, NHCOC:CHY1, A(CH2)myl1 such as
 as
 II are prepd. as inhibitors of human cytoplasmic protein tyrosine phosphatase, an enzyme that impedes angiogenesis, for the treatment of wounds and diseased tissue by the acceleration of wound and injury repair;

Et N- [4-(4-morpholinyl)phenyl]sulfamate is also claimed as a compd. of the invention. Pharmaceutical compns. contg. I are also claimed (no data). II is prepd. by alkylation of 4-nitrophenylpiperazine with 3-fluorobenzyl bromide followed by redn. of the nitro group to an amino group (procedures but no prep. data given); treatment of the aniline with chlorosulfonic acid followed by deprotonation of the sulfamic acid with sodium carbonate yields II. Seventy-six example compds. inhibit human cytoplasmic protein tyrosine phosphatase (EC 3.1.3.2) with IC50 values between 0.06 µM and 61 µM. E.g., II inhibits human cytoplasmic protein tyrosine phosphatase with an IC50 value of 0.06 µM.

IT 611399-87-2F
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediates: preparation of sodium sulfamates and a sulfamic acid ester as human cytoplasmic protein tyrosine phosphatase inhibitors for the treatment of wounds and tissue damage by accelerating wound and tissue repair)

RN 611399-87-2 CAPLUS
 CN 3-Pyrrolidinamine, 1-(4-aminophenyl)-N-(1,3-benzodioxol-5-ylmethyl)-N-methyl- (9CI) (CA INDEX NAME)

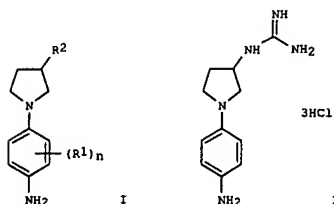


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 66 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:771366 CAPLUS
 DOCUMENT NUMBER: 139:276814
 TITLE: Preparation of aminophenylpyrrolidines as dyes for keratinic fibers
 INVENTOR(S): Sabelle, Stephane; Ramos, Laure; Leduc, Madeleine; Philippe, Michel
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: Eur. Pat. Appl., 4 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1348695	A1	20031001	EP 2003-290597	20030311
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2837821	A1	20031003	FR 2002-3847	20020327
FR 2837821	B1	20050311		
JP 2003286256	A2	20031010	JP 2003-89390	20030327
US 2003229949	A1	20031218	US 2003-397245	20030327
US 2004194227	A9	20041007		
US 6946005	B2	20050920		
PRIORITY APPLN. INFO.:			FR 2002-3847	A 20020327
			US 2002-387499P	P 20020611

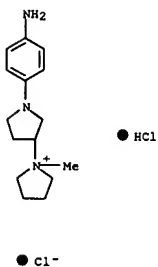
OTHER SOURCE(S): MARPAT 139:276814
 GI



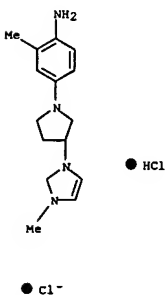
AB Aminophenylpyrrolidines I (R1 = halogen, (un)substituted alkyl, onium; n = 0-4; R2 = quaternary ammonium) were prepared for use as hair dyes. Thus, 4-FC6H4NO2 was treated with 3-acetylamino-3-methylpyrrolidine, followed by deacetylation, conversion to guanidine, and reduction to give the dye II, which gave blue-violet shades in alkaline medium.

IT 607354-86-8P 607354-88-1P 607354-93-8P
 607354-98-3P 607355-02-2P 607355-05-5P
 607355-09-9P 607355-10-2P 607355-11-3P
 607355-12-4P 607355-13-5P 607355-14-6P

L13 ANSWER 66 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CN 1,3'-Bipyrrolidinium, 1'-[1-(4-aminophenyl)-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)

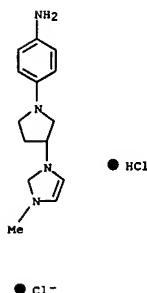


RN 607354-98-3 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)

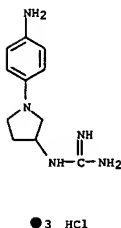


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-02-2 CAPLUS
 CN Thiazolium, 3-[1-(4-aminophenyl)-3-pyrrolidinyl]-, acetate (9CI) (CA INDEX NAME)
 CM 1

L13 ANSWER 66 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 607355-15-7P 607355-16-8P 607355-17-9P
 607355-18-0P 607355-19-1P 607355-20-4P
 607355-21-5P 607355-22-6P 607355-23-7P
 701975-10-2P 701975-22-6P
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of aminophenylpyrrolidines as dyes for keratinic fibers)
 RN 607354-86-9 CAPLUS
 CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride, monohydrochloride (9CI) (CA INDEX NAME)

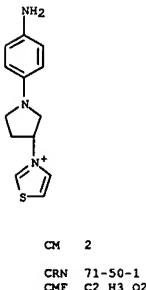


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607354-88-1 CAPLUS
 CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]-, trihydrochloride (9CI) (CA INDEX NAME)

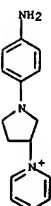


RN 607354-93-8 CAPLUS

L13 ANSWER 66 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 CRN 607355-01-1
 CMF C13 H16 N3 S



RN 607355-05-5 CAPLUS
 CN Pyridinium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-, acetate (9CI) (CA INDEX NAME)
 CM 1
 CRN 607355-04-4
 CMF C15 H18 N3



L13 ANSWER 66 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

CH 2

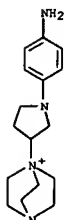
CRN 71-50-1
CMF C2 H3 O2



RN 607355-09-9 CAPLUS
CN 4-Aza-1-azoniabicyclo[2.2.2]octane,
1-[1-(4-aminophenyl)-3-pyrrolidinyl]-,
methanesulfonate, monohydrochloride (9CI) (CA INDEX NAME)

CH 1

CRN 607355-08-8
CMF C16 H25 N4



CH 2

CRN 16053-58-0
CMF C H3 O3 S

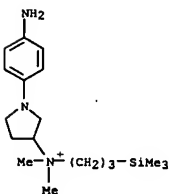


RN 607355-10-2 CAPLUS
CN Guanidine, N'-[1-(4-aminophenyl)-3-pyrrolidinyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

L13 ANSWER 66 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

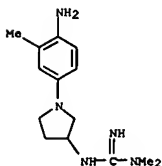
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 607355-13-5 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)



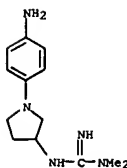
● Cl⁻

RN 607355-14-6 CAPLUS
CN Guanidine, N'-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

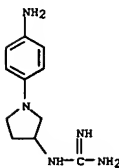


RN 607355-15-7 CAPLUS
CN Guanidine, [1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

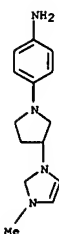
L13 ANSWER 66 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 607355-11-3 CAPLUS
CN Guanidine, [1-(4-aminophenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

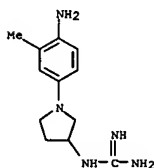


RN 607355-12-4 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-aminophenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

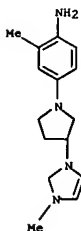


● Cl⁻

L13 ANSWER 66 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



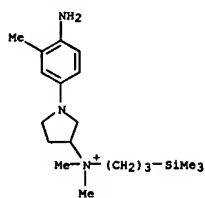
RN 607355-16-8 CAPLUS
CN 1H-Imidazolium, 1-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)



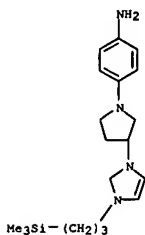
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

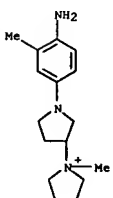
RN 607355-17-9 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-amino-3-methylphenyl)-N,N-dimethyl-N-[3-(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

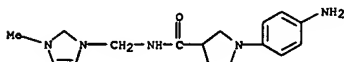
RN 607355-18-0 CAPLUS
 CN 1H-Imidazolium, 1-[[1-(4-aminophenyl)-3-pyrrolidinyl]-3-[(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

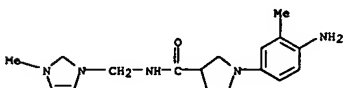
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-19-1 CAPLUS
 CN 1H-Imidazolium, 1-[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]-3-[(trimethylsilyl)propyl]-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

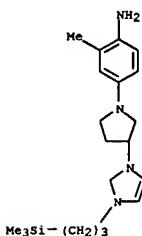
RN 607355-22-6 CAPLUS
 CN 1H-Imidazolium, 1-[[[1-(4-aminophenyl)-3-pyrrolidinyl]carbonyl]amino]methyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

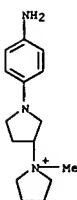
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-23-7 CAPLUS
 CN 1H-Imidazolium, 1-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]carbonyl]amino]methyl]-3-methyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

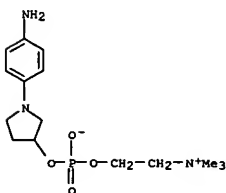
● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 607355-20-4 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-aminophenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

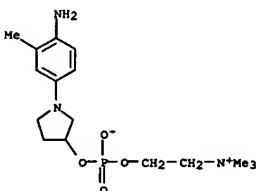
● Cl⁻

RN 607355-21-5 CAPLUS
 CN 1,3'-Bipyrrolidininium, 1'-(4-amino-3-methylphenyl)-1-methyl-, chloride (9CI) (CA INDEX NAME)

RN 701975-10-2 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-aminophenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



RN 701975-22-6 CAPLUS
 CN Ethanaminium, 2-[[[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]hydroxyphosphinyl]oxy]-N,N,N-trimethyl-, inner salt (9CI) (CA INDEX NAME)



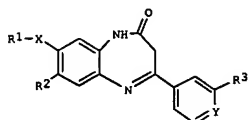
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L13 ANSWER 67 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2003:63697 CAPLUS
DOCUMENT NUMBER: 139:180090
TITLE: Preparation of dihydrobenzodiazepin-2-ones as metabotropic glutamate receptor antagonists for the treatment of neurological disorders
INVENTOR(S): Adam, Geo; Goetschi, Erwin; Wichmann, Juergen; Woltering, Thomas Johannes
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: PCT Int. Appl., 323 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003066623	A1	20030814	WO 2003-EP859	20030128
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2003166639	A1	20030904	US 2003-350713	20030124
US 6949542	B2	20050927		
CA 2474219	AA	20030814	CA 2003-2474219	20030128
AU 2003205695	A1	20030902	AU 2003-205695	20030128
BR 2003007474	A	20041109	BR 2003-7474	20030128
EP 1474416	A1	20041110	EP 2003-702549	20030128
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2005522440	T2	20050728	JP 2003-565996	20030128
NO 2004003237	A	20040802	NO 2004-3237	20040802
PRIORITY APPLN. INFO.:			EP 2002-2012	A 20020206
			WO 2003-EP859	W 20030128

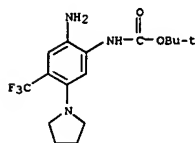
OTHER SOURCE(S): MARPAT 139:180090
GI



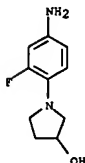
AB This invention relates to dihydrobenzo[b][1,4]diazepin-2-ones (shown as I):

L13 ANSWER 67 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 67 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
variables defined below: e.g.
7,8-dichloro-4-[3-(pyridin-3-yl)phenyl]-1,3-dihydrobenzo[b][1,4]diazepin-2-one). The invention further relates to medicaments contg. these compds., a process for their prepn. as well as their use for prepn. of medicaments for the treatment or prevention of acute and/or chronic neurol. disorders, e.g. Alzheimer's disease. Three examples of pharmaceutical compns. contg. I are included. Ki values for 50 examples of I as metabotropic glutamate receptor antagonists are tabulated, e.g. 0.00135 μ M for 7,8-dichloro-4-(3-pyridin-3-ylphenyl)-1,3-dihydrobenzo[b][1,4]diazepin-2-one. More than 400 example prepn. of I and many example prepn. of intermediates are included. For example,
7,8-dichloro-4-[3-(pyridin-3-yl)phenyl]-1,3-dihydrobenzo[b][1,4]diazepin-2-one (310 mg) was prepd. from 4,5-dichlorophenylenediamine (0.97 mmol) and 3-oxo-3-[3-(pyridin-3-yl)phenyl]propionic acid tert-Bu ester (0.97 mmol) by refluxing in xylene. For I: X is a single bond or an ethynediyl group; and wherein in case X is a single bond, R1 is H, cyano, halogen, lower alkyl, lower alkoxy, fluoro-lower alkyl, fluoro-lower alkoxy, pyrrol-1-yl, or Ph, which is (un)substituted by one or two substituents halogen, lower alkyl or fluoro-lower alkyl; or in case X is an ethynediyl group, R1 is Ph, which is (un)substituted by one or two substituents halogen, lower alkyl or fluoro-lower alkyl. R2 is H, lower alkyl, lower alkenyl lower alkoxy, halogen, -NR'R'', pyrrolidin-1-yl, piperidin-1-yl, morpholin-4-yl, fluoro-lower alkyl, fluoro-lower alkoxy, or lower alkoxy(ethoxy)m; n = 1-4; R' is H, lower alkyl or C3-C6-cycloalkyl; R'' is H, lower alkyl or C3-C6-cycloalkyl; Y is -CH= or -N=; R3 is a six-membered arom. heterocycle contg. 1 to 3-N atoms or a pyridine N-oxide, which rings are (un)substituted by one or two substituents halogen, fluoro-lower alkyl, fluoro-lower alkoxy, cyano, amino, lower alkylamino, lower alkoxy-lower alkylamino, lower hydroxy-lower alkylamino, -(CH2)n-C(O)-OR'', -(CH2)n-C(O)-NR'R'', -(CH2)n-SO2-NR'R'', -(CH2)n-C(NH2):NR'', hydroxy, lower alkoxy, lower alkylthio, C3-C6-cycloalkyl and lower alkyl, which is (un)substituted by fluoro, -NR'R'', hydroxy, lower alkoxy, pyrrolidin-1-yl, azetidin-1-yl, cyano or carbamoyloxy; n = 0-4.
IT 473547-66-9P, [2-Amino-5-(pyrrolidin-1-yl)-4-trifluoromethylphenyl]carbamic acid tert-butyl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(Preparation of dihydrobenzodiazepin-2-ones as metabotropic glutamate receptor antagonists for treatment of neurol. disorders)
RN 473547-66-9 CAPLUS
CN Carbamic acid, [2-amino-5-(1-pyrrolidinyl)-4-(trifluoromethyl)phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 68 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2003:513428 CAPLUS
DOCUMENT NUMBER: 139:230395
TITLE: Reduction of nitro group using indium-wire in water
AUTHOR(S): Cho, Yong Seo; Jun, Bo Kyung; Kim, Sanghee; Cha, Joo Hwan; Pae, Ae Nim; Koh, Hun Yeong; Chang, Moon Ho; Han, So-Yeop
CORPORATE SOURCE: Biochemicals Research Center, Korea Institute of Science and Technology, Seoul, 130-650, S. Korea
SOURCE: Bulletin of the Korean Chemical Society (2003), 24(5), 653-654
CODEN: BKCSDE; ISSN: 0253-2964
PUBLISHER: Korean Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:230395
AB A highly efficient, mild reduction method for nitro groups using indium wire under acidic condition in water with sonication is reported. This reaction provided a remarkable improvement over the indium powder method with respect to yield, consumption of indium, and work-up.
IT 593249-20-8P
RL: SPN (Synthetic preparation); PREP (Preparation) (reduction of nitro groups using indium wire in water)
RN 593249-20-8 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-2-fluorophenyl)- (9CI) (CA INDEX NAME)



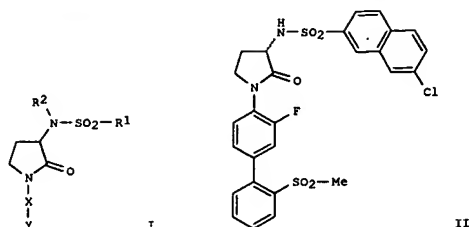
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 69 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2003:511293 CAPLUS
 DOCUMENT NUMBER: 139:85238
 TITLE: Preparation of 3-(sulfonylamino)pyrrolidin-2-ones as factor Xa inhibitors
 INVENTOR(S): Borthwick, Alan David; Chan, Chuen; Kelly, Henry
 Anderson; King, Nigel Paul; Kleanthous, Savvas;
 Mason,
 Andrew McMurtrie; Pinto, Ivan Leo; Pollard, Derek
 Roland; Senger, Stefan; Shah, Gita Punjabhai; Watson,
 Nigel Stephen; Young, Robert John
 PATENT ASSIGNEE(S): Glaxo Group Limited, UK
 SOURCE: PCT Int. Appl., 112 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003053925	A1	20030703	WO 2002-EP14826	20021220
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2471461	AA	20030703	CA 2002-2471461	20021220
AU 2002366747	A1	20030709	AU 2002-366747	20021220
EP 1456172	A1	20040915	EP 2002-805350	20021220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002015200	A	20041013	BR 2002-15200	20021220
JP 2005519885	T2	20050707	JP 2003-554642	20021220
ZA 2004004147	A	20050621	ZA 2004-4147	20040527
NO 2004002990	A	20040920	NO 2004-2990	20040713
US 2005059726	A1	20050317	US 2004-495529	20041101
PRIORITY APPLN. INFO.:			GB 2001-30705	A 20011221
			WO 2002-EP14826	W 20021220

OTHER SOURCE(S): MARPAT 139:85238
 GI

L13 ANSWER 69 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



AB Title compds. I [wherein R1 = (un)substituted naphthyl, benzothienyl, benzofuryl, indolyl, phenyl(alkyl), 2,2'-bithiophen-5-yl, thienyl(alkyl), or thieno[3,2-b]thiophenyl; R2 = H, (CH2)nCONRb, (CH2)nCO2Rc, morpholinoalkyl, CO2Rc, or carboxyalkyl; X = H, halo, CN, alkyl, alkenyl, CF3, NRb, NO2, NRcCHO, NHCORc, NHSO2Rc, alkoxyalkyl, hydroxyalkyl, CORC, CONRb, SOO-2Rc, SO2NRb, or (un)substituted Ph, heterocyclyl, or heteroaryl; n = 1-3; Ra and Rb = independently H or alkyl, or NRaRb = (un)substituted heterocyclyl; Rc = alkyl; and pharmaceutically acceptable deriva. thereof] were prepared as factor Xa inhibitors. For example, coupling of (3S)-3-amino-1-[3-fluoro-2'-(methylsulfonyl)-1,1'-biphenyl-4-yl]pyrrolidin-2-one with 6-chloro-2-naphthylsulfonyl chloride in the presence of pyridine in DCM gave II. The latter inhibited human factor Xa

in an in vitro fluorogenic assay with KI <10 nM. Thus, I and compns. comprising I are useful as medicines for the amelioration of clin. conditions for which a Factor Xa inhibitor is indicated (no data).

IT 553653-29-SP

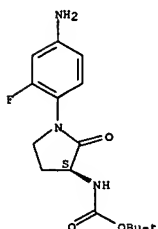
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (intermediate; preparation of (sulfonylamino)pyrrolidinone factor Xa inhibitors starting from homoserines)

RN 553653-29-5 CAPLUS

CN Carbamic acid, [(3S)-1-(4-amino-2-fluorophenyl)-2-oxo-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L13 ANSWER 69 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

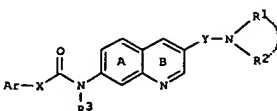


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 70 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2003:335085 CAPLUS
 DOCUMENT NUMBER: 138:353842
 TITLE: Preparation of quinoline derivatives as melanin-concentrating hormone antagonists
 INVENTOR(S): Ishihara, Yuiji; Kamata, Makoto; Takekawa, Shiro;
 Suzuki, Nobuhiro; Kato, Koki
 Takeda Chemical Industries, Ltd., Japan
 PATENT ASSIGNEE(S):
 SOURCE: PCT Int. Appl., 346 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

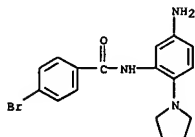
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003035624	A1	20030501	WO 2002-JP11045	20021024
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2464981	AA	20030501	CA 2002-2464981	20021024
JP 2004059567	A2	20040226	JP 2002-309175	20021024
EP 1447402	A1	20040818	EP 2002-777944	20021024
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002013521	A	20041019	BR 2002-13521	20021024
US 2005209213	A1	20050922	US 2004-493427	20040423
PRIORITY APPLN. INFO.:			JP 2001-327924	A 20011025
			JP 2002-163239	A 20020604
			WO 2002-JP11045	W 20021024

OTHER SOURCE(S): MARPAT 138:353842
 GI



AB The title compds. I [Ar represents an optionally substituted cyclic group;
 X represents a bond or a spacer having a C1-6 main chain; R1 and R2 are the same or different and each represents hydrogen or an optionally substituted hydrocarbon group or R1 and R2 may form an optionally

L13 ANSWER 70 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
substituted nitrogenous heterocycle in cooperation with the adjacent
nitrogen atom; Y represents an optionally substituted divalent
hydrocarbon
group (excluding CO); R3 represents hydrogen or an optionally substituted
hydrocarbon group; ring A and ring B each may have other substituent(s),
and when ring B has another substituent, this substituent may be bonded
to
R1 to form a ring] are prepd. I are useful in the treatment of obesity,
etc. A process for prep. I is disclosed. In an in vitro test for
melanin-concg. hormone antagonist activity, one compd. of this invention
showed IC50 of 6 nM. A formulation is given.
IT 521074-17-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of quinoline compds. as antagonists of
melanin-concentrating hormone)
RN 521074-17-9 CAPLUS
CN Benzamide, N-[5-amino-2-(1-pyrrolidinyl)phenyl]-4-bromo- (9CI) (CA INDEX
NAME)



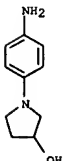
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR
THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L13 ANSWER 71 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2003:322137 CAPLUS
DOCUMENT NUMBER: 138:326262
TITLE: Oxidative hair dyes containing a p-phenylenediamine,
a
p-aminophenol,
1-N-(beta-hydroxyethyl)-4-hydroxyindole
and a m-aminophenol
INVENTOR(S): Audousset, Marie Pascale
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Fr. Demande, 23 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2831057	A1	20030425	FR 2001-13766	20011024
FR 2831057	B1	20040528	FR 2001-13766	20011024

PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 138:326262
AB Oxidative hair dyes contain: -a first oxidation base of
para-phenylenediamine-
type or one of its addition salts; -a second oxidation base of
paraminophenol-type or one of its addition salts; -a 1-N-(beta-
hydroxyethyl)-4-hydroxy indole or one of its addition salts as first
coupler;
-a second coupler of the meta-aminophenol-type or one of its addition
salts.
A hair dye contained p-phenylenediamine 0.216, p-aminophenol 0.327,
2-methyl-5-aminophenol 0.307, 4-hydroxy-1-N-(beta-hydroxyethyl)indole
0.442, excipients and water q.s. 100 g. At the time of use equal amts.
of
dye is mixed with 20 volume hydrogen peroxide and applied for 30 min. on
the
hair. The hair is then rinse, washed with shampoo, and dried to obtain a
blond color.
IT 503457-32-7
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidative hair dyes containing phenylenediamine, aminophenol,
hydroxyethyl
hydroxyindole and aminophenol)
RN 503457-32-7 CAPLUS
CN 3-Pyrrolidinol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 71 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

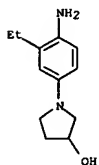
L13 ANSWER 72 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2003:322135 CAPLUS
DOCUMENT NUMBER: 138:326260
TITLE: Oxidative hair dyes containing a heterocyclic base
and
1-N-(beta-hydroxyethyl)-4-hydroxyindole as coupling
agent
INVENTOR(S): Audousset, Marie Pascale
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Fr. Demande, 32 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2831055	A1	20030425	FR 2001-13764	20011024
FR 2831055	B1	20040528	FR 2001-13764	20011024

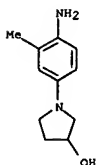
PRIORITY APPLN. INFO.:
OTHER SOURCE(S): MARPAT 138:326260
AB Oxidative hair dyes contain a heterocyclic base selected from: (i) the
4,5-diamino-1-(2'-hydroxyethyl) pyrazole and its addition salts; (ii)
paraphenylenediamines with cyclic amino group and their addition salts;
(iii)
pyrazolo-[1,5-a]-pyrimidines and their addition salts; - and
1-N-(beta-hydroxyethyl)-4-hydroxy indole and its addition salts as coupler.
A hair dye contained 4,5-diamino-1-(2'-hydroxyethyl) pyrazole
dihydrochloride 1.075, 4-hydroxy-1-N-(beta-hydroxyethyl)indole 0.885,
excipients and water q.s. 100 g. At the time of use equal amount of dye
is
mixed with 20 volume hydrogen peroxide and applied for 30 min. on the
hair.
The hair is then rinsed with water, washed with shampoo, and dried to
obtain a dark brown color.
IT 2632-65-7 143525-63-7 143525-67-1
177908-38-2 220898-56-6 503457-32-7
503457-33-8 503457-34-9 503457-35-0
503457-36-1 503457-37-2 503457-38-3
503457-39-4 503457-40-7 503457-41-8
503457-42-9 503457-43-0 503457-44-1
503457-46-3 503457-48-5 503457-50-9
503457-54-3 503457-55-4 503457-56-5
503457-57-6 503457-58-7 503457-59-8
503457-60-1 503457-61-2
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidative hair dyes containing heterocyclic base and hydroxyethyl
hydroxyindole as coupling agent)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



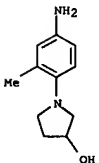
RN 143525-63-7 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)



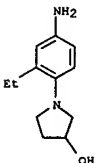
RN 143525-67-1 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



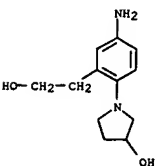
RN 177908-38-2 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



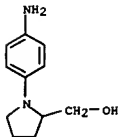
RN 503457-34-9 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-2-ethylphenyl)- (9CI) (CA INDEX NAME)



RN 503457-35-0 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-2-(2-hydroxyethyl)phenyl)- (9CI) (CA INDEX NAME)

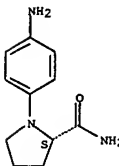


RN 503457-36-1 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-2-(1-hydroxyethyl)phenyl)- (9CI) (CA INDEX NAME)



RN 220898-56-6 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-, (2S)- (9CI) (CA INDEX NAME)

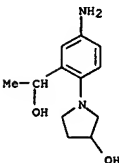
Absolute stereochemistry.



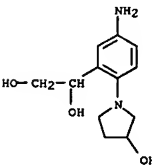
RN 503457-32-7 CAPLUS
CN 3-Pyrrolidinol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



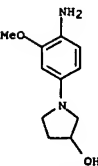
RN 503457-33-8 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-2-methylphenyl)- (9CI) (CA INDEX NAME)



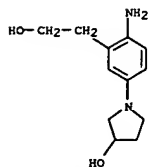
RN 503457-37-2 CAPLUS
CN 1,2-Ethanediol, 1-[5-amino-2-(3-hydroxy-1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



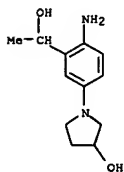
RN 503457-38-3 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



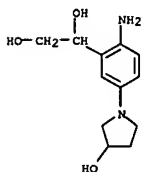
RN 503457-39-4 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-(2-hydroxyethyl)phenyl)- (9CI) (CA INDEX NAME)



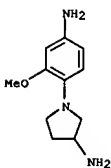
RN 503457-40-7 CAPLUS
CN 3-Pyrrolidinol, 1-[4-amino-3-(1-hydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)



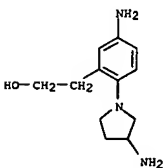
RN 503457-41-8 CAPLUS
CN 1,2-Ethanediol, 1-[2-amino-5-(3-hydroxy-1-pyrrolidinyl)phenyl]- (9CI)
(CA INDEX NAME)



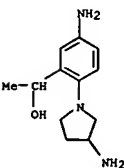
RN 503457-42-9 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



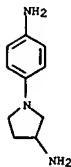
RN 503457-48-5 CAPLUS
CN Benzenemethanol, 5-amino-2-(3-amino-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



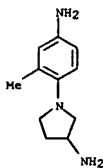
RN 503457-50-9 CAPLUS
CN Benzenemethanol, 5-amino-2-(3-amino-1-pyrrolidinyl)-alpha-methyl- (9CI)
(CA INDEX NAME)



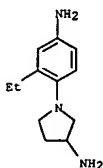
RN 503457-54-3 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



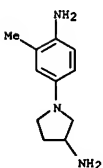
RN 503457-43-0 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-2-methylphenyl)- (9CI) (CA INDEX NAME)



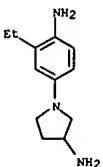
RN 503457-44-1 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-2-ethylphenyl)- (9CI) (CA INDEX NAME)



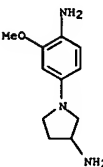
RN 503457-46-3 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-2-methoxyphenyl)- (9CI) (CA INDEX NAME)



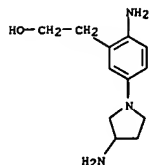
RN 503457-55-4 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)



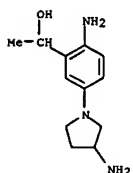
RN 503457-56-5 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



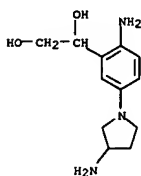
RN 503457-57-6 CAPLUS
CN Benzenemethanol, 2-amino-5-(3-amino-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 503457-58-7 CAPLUS
CN Benzenemethanol, 2-amino-5-(3-amino-1-pyrrolidinyl)- α -methyl- (9CI) (CA INDEX NAME)



RN 503457-59-8 CAPLUS
CN 1,2-Ethanediol, 1-[2-amino-5-(3-amino-1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 503457-60-1 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)-4-hydroxy- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2003:322134, CAPLUS
DOCUMENT NUMBER: 138:326259
TITLE: Oxidative hair dye composition containing a p-phenylenediamine, 1-N-(beta-hydroxy)indole and a m-aminophenol
INVENTOR(S): Audoussert, Marie Pascale
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: Fr. Demande, 23 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2831054	A1	20030425	FR 2001-13763	20011024
FR 2831054	B1	20040528		

PRIORITY APPLN. INFO.: FR 2001-13763 20011024

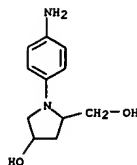
OTHER SOURCE(S): MRPAT 138:326259
AB An oxidative hair dye composition contains an oxidation base of the p-phenylenediamine-type or one of its additive salts; - at least 1-N-(beta-hydroxyethyl) 4-hydroxy indole or one of its additive salts as first coupler; - at least a second coupler of the m-aminophenol-type or one of its additive salts. A hair dye composition contained p-toluenediamine 0.6, 2-methyl-5-aminophenol 0.5, 1-N-(beta-hydroxyethyl)4-hydroxyindole 0.1, excipients and water q.s. 100 g. At the time of use equal amts. of the composition is mixed with 20 volume hydrogen peroxide and applied on the hair for 30 min. The hair is then rinsed with water, washed with shampoo, and dried to obtain a chestnut brown color.

IT 503457-32-7
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidative hair dye composition containing p-phenylenediamine, 1-N-(beta-hydroxy)indole and m-aminophenol, and method of dyeing)

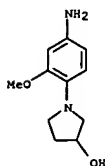
RN 503457-32-7 CAPLUS
CN 3-Pyrrolidinol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT



RN 503457-61-2 CAPLUS
CN 3-Pyrrolidinol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

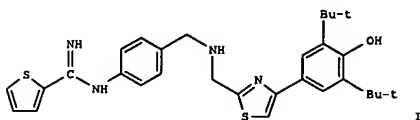
ACCESSION NUMBER: 2003:319488 CAPLUS
DOCUMENT NUMBER: 138:337988
TITLE: Novel 2-((iminomethyl)amino)phenyl derivatives useful as inhibitors of NO synthase and lipid peroxidation, their preparation, their application as medicines,
and pharmaceutical compositions containing them
INVENTOR(S): Chabrier De Lassauniere, Pierre Etienne; Auvin, Serge;
PATENT ASSIGNEE(S): Bigg, Dennis; Auguet, Michel; Harnett, Jeremiah
SOURCE: Societe de Conseils de Recherches et D'Applications scientifiques (S.C.R.A.S.), Fr.
U.S. Pat. Appl. Publ., 78 pp., Cont.-in-part of U.S. Ser. No. 882,264.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003078420	A1	20030424	US 2002-191950	20020709
US 6809088	B2	20041026		
FR 2761066	A1	19980925	FR 1997-3528	19970324
FR 2761066	B1	20001124		
FR 2764889	A1	19981224	FR 1997-7701	19970620
FR 2764889	B1	20000901		
WO 9842696	A1	19981001	WO 1998-FR288	19980216
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GU, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
WO 9858934	A1	19981230	WO 1998-FR1250	19980615
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GU, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6335445	B1	20020101	US 1999-456205	19991207
US 2002007062	A1	20020117	US 2001-882264	20010615
US 6630461	B2	20031007		
US 2005043397	A1	20050224	US 2004-898916	20040726
US 2005187272	A1	20050825	US 2005-105291	20050413

PRIORITY APPLN. INFO.: FR 1997-3528 A 19970324
FR 1997-7701 A 19970620
WO 1998-FR288 W 19980216
WO 1998-FR1250 W 19980615
US 1999-456205 A3 19991207

L13 ANSWER 74 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
US 2001-882264 A2 20010615
US 1999-381749 A2 19990922
US 2002-191950 A3 20020709
US 2004-898916 A3 20040726

OTHER SOURCE(S): MARPAT 138:337988
GI

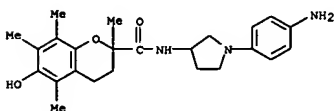


AB Title compds., e.g., N-[4-[[[4-(3,5-di-tert-butyl-4-hydroxyphenyl)-1,3-thiazol-2-yl]methyl]amino]methyl]phenyl]thiophene-2-carboximidamide (I) are prepared. The compds. are inhibitors of NO synthases, and are also antioxidants which inhibit lipid peroxidn. Approx. 70 examples are prepared.

I had IC50 for inhibiting rat neuronal NO synthase in vitro < 3.5 µM, and the IC50 for inhibiting rat cerebral lipid peroxidn. in vitro is < 30 µM.

IT 218944-33-3P, 3-[[[3,4-Dihydro-6-hydroxy-2,5,7,8-tetramethyl-2H-(1)-benzopyran-2-yl]carbonyl]amino]-1-(4-aminophenyl)pyrrolidine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and testing of 2-[[[iminomethyl]amino]phenyl] derivs. as inhibitors of NO synthase and lipid peroxidn.)

RN 218944-33-3 CAPLUS
CN 2H-1-Benzopyran-2-carboxamide, N-[1-(4-aminophenyl)-3-pyrrolidinyl]-3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl- (9CI) (CA INDEX NAME)



L13 ANSWER 76 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:262765 CAPLUS
DOCUMENT NUMBER: 138:275943
TITLE: Oxidative hair dye composition comprising an oxidizing

diaminopyrazole base, an oxidizing p-phenylenediamine base with a cyclic amino group and a coupler
Kratvchenko, Sylvain; Lagrange, Alain

INVENTOR(S): L'oreal, Fr.
PATENT ASSIGNEE(S): Fr. Demande, 26 pp.
SOURCE: CODEN: FRXXBL

DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2830191	A1	20030404	FR 2001-12529	20010928
FR 2830191	B1	20041210		
WO 2003028689	A1	20030410	WO 2002-FR3318	20020927
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GO, GW, ML, MR, NE, SN, TD, TG				
EP 1432389	A1	20040630	EP 2002-783225	20020927
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			US 2004-491217	20040326
US 2004231066	A1	20041125	FR 2001-12529	A 20010928
PRIORITY APPLN. INFO.: WO 2002-FR3318 W 20020927				

OTHER SOURCE(S): MARPAT 138:275943

AB The title hair dyes are disclosed. A hair dye composition contained 4,5-diamino-1-(2'-methoxyethyl)-pyrazole.2HCl (preparation given) 0.744, 1-(4-aminophenyl)-3-hydroxypyrrrolidine 0.762, 1-methyl-4-amino-phenol 0.78, excipients and water q.s. 100 g.

IT 2632-65-7 143525-63-7 143525-67-1
177908-38-2 220898-56-6 503457-32-7
503457-33-8 503457-34-9 503457-35-0
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503457-42-9 503457-43-0 503457-44-1
503457-46-3 503457-48-5 503457-50-9
503457-52-1 503457-54-3 503457-55-4
503457-56-5 503457-57-6 503457-58-7
503457-59-8 503457-60-1 503457-61-2
RL: C03 (Cosmetic use); B10L (Biological study); USES (Uses)
(oxidative hair dye composition comprising diaminopyrazole-type oxidation base,

heterocyclic oxidation base, and coupler)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 75 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:291670 CAPLUS
DOCUMENT NUMBER: 139:164739
TITLE: Synthesis of some new benzimidazole carbamate derivatives for evaluation of antifungal activity
Kus, Canan; Altanlar, Nurten

AUTHOR(S): Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Ankara University, Ankara, 06100, Turk.
CORPORATE SOURCE: Turkish Journal of Chemistry (2003), 27(1), 35-39
CODEN: TJCHE3; ISSN: 1300-0527

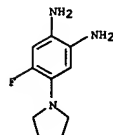
SOURCE: Scientific and Technical Research Council of Turkey
PUBLISHER: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:164739

AB The synthesis and structure elucidation of Me 5(6)-fluoro-6(5)-substituted-1H-benzimidazole carbamate derivs. are performed and their antifungal activities evaluated against Candida albicans.

IT 216883-42-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzimidazole carbamate derivs. and their antifungal activities)

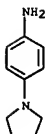
RN 216883-42-0 CAPLUS
CN 1,2-Benzenediamine, 4-fluoro-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



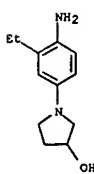
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

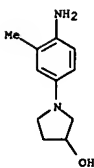
L13 ANSWER 76 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



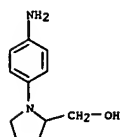
RN 143525-63-7 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)



RN 143525-67-1 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)

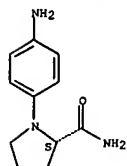


RN 177908-38-2 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

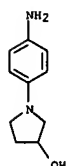


RN 220898-56-6 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-, (2S)- (9CI) (CA INDEX NAME)

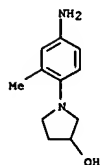
Absolute stereochemistry.



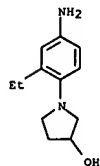
RN 503457-32-7 CAPLUS
CN 3-Pyrrolidinol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



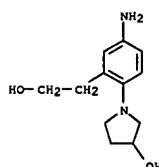
RN 503457-33-8 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-2-methylphenyl)- (9CI) (CA INDEX NAME)



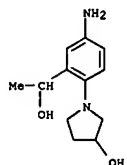
RN 503457-34-9 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-2-ethylphenyl)- (9CI) (CA INDEX NAME)



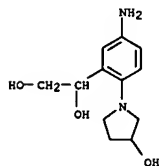
RN 503457-35-0 CAPLUS
CN 3-Pyrrolidinol, 1-[4-amino-2-(2-hydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)



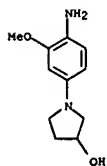
RN 503457-36-1 CAPLUS
CN 3-Pyrrolidinol, 1-[4-amino-2-(1-hydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)



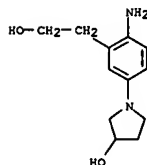
RN 503457-37-2 CAPLUS
CN 1,2-Ethanediol, 1-[5-amino-2-(3-hydroxy-1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



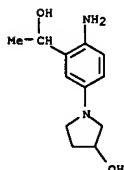
RN 503457-38-3 CAPLUS
CN 3-Pyrrolidinol, 1-[4-amino-3-methoxyphenyl]- (9CI) (CA INDEX NAME)



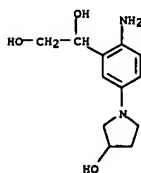
RN 503457-39-4 CAPLUS
CN 3-Pyrrolidinol, 1-[4-amino-3-(2-hydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)



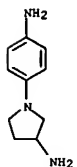
RN 503457-40-7 CAPLUS
CN 3-Pyrrolidinol, 1-[4-amino-3-(1-hydroxyethyl)phenyl]- (9CI) (CA INDEX NAME)



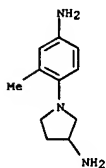
RN 503457-41-8 CAPLUS
CN 1,2-Ethanediol, 1-[2-amino-5-(3-hydroxy-1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



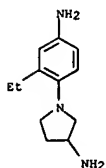
RN 503457-42-9 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



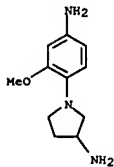
RN 503457-43-0 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-2-methylphenyl)- (9CI) (CA INDEX NAME)



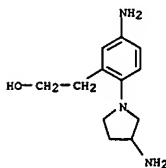
RN 503457-44-1 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-2-ethylphenyl)- (9CI) (CA INDEX NAME)



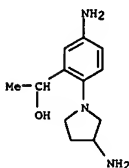
RN 503457-46-3 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-2-methoxyphenyl)- (9CI) (CA INDEX NAME)



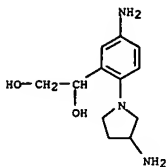
RN 503457-48-5 CAPLUS
CN Benzenemethanol, 5-amino-2-(3-amino-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



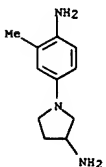
RN 503457-50-9 CAPLUS
CN Benzenemethanol, 5-amino-2-(3-amino-1-pyrrolidinyl)-α-methyl- (9CI) (CA INDEX NAME)



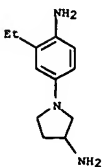
RN 503457-52-1 CAPLUS
CN 1,2-Ethanediol, 1-[5-amino-2-(3-amino-1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)



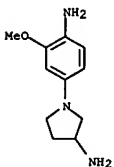
RN 503457-54-3 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



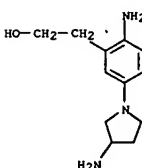
RN 503457-55-4 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-3-ethylphenyl)- (9CI) (CA INDEX NAME)



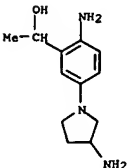
RN 503457-56-5 CAPLUS
CN 3-Pyrrolidinamine, 1-(4-amino-3-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 503457-57-6 CAPLUS
CN Benzenemethanol, 2-amino-5-(3-amino-1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

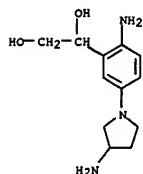


RN 503457-58-7 CAPLUS
CN Benzenemethanol, 2-amino-5-(3-amino-1-pyrrolidinyl)-α-methyl- (9CI) (CA INDEX NAME)

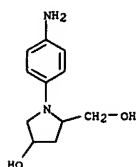


RN 503457-59-8 CAPLUS
CN 1,2-Ethanediol, 1-[2-amino-5-(3-amino-1-pyrrolidinyl)phenyl]- (9CI) (CA INDEX NAME)

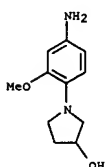
L13 ANSWER 76 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 503457-60-1 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)-4-hydroxy- (9CI) (CA INDEX NAME)

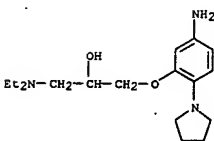


RN 503457-61-2 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-2-methoxyphenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 77 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
AB Methods are provided which use arylamines (Markush included) for treating CMV infections and CMV-related diseases. The compounds of the invention inhibit chemokine binding to US28. Preparation and biological testing of e.g. I are described.
IT 501007-50-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(arylamines as inhibitors of chemokine binding to US28, preparation, and use in treating CMV infections and CMV-related diseases)
RN 501007-50-7 CAPLUS
CN 2-Propanol, 1-[5-amino-2-(1-pyrrolidinyl)phenoxy]-3-(diethylamino)- (9CI) (CA INDEX NAME)

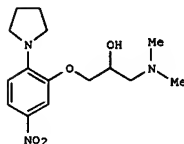


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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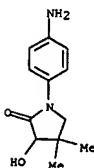
L13 ANSWER 77 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:202379 CAPLUS
DOCUMENT NUMBER: 139:215266
TITLE: Arylamines as inhibitors of chemokine binding to US28,
their preparation, and their use in treating cytomegalovirus (CMV) infections and CMV-related diseases
INVENTOR(S): McMaster, Brian E.; Schall, Thomas J.; Penfold, Mark; Wright, J. J.; Dairaghi, Daniel J.
PATENT ASSIGNEE(S): Chemocentryx, Inc., USA
SOURCE: PCT Int. Appl., 39 pp.
CODEN: FIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003020029	A1	20030313	WO 2002-US27812	20020829
W:	AZ, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2003114423	A1	20030619	US 2002-233336	20020829
US 6821998	B2	20041123		
US 2003149055	A1	20030807	US 2002-233326	20020829
EP 1465488	A1	20041013	EP 2002-757525	20020829
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
PRIORITY APPL. INFO.:			US 2001-316386P	P 20010830
			WO 2002-US27812	W 20020829

OTHER SOURCE(S): MARPAT 139:215266
GI

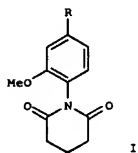


L13 ANSWER 78 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:163276 CAPLUS
DOCUMENT NUMBER: 139:133402
TITLE: One-pot synthesis of N-substituted pantolactams from pantolactone
AUTHOR(S): Barrios, Ivana; Camps, Pelayo; Comes-Franchini, Mauro;
CORPORATE SOURCE: Munoz-Torrero, Diego; Ricci, Alfredo; Sanchez, Laura
Facultat de Farmacia, Laboratori de Quimica Farmaceutica, Universitat de Barcelona, Barcelona, E-08028, Spain
SOURCE: Tetrahedron (2003), 59(11), 1971-1979
CODEN: TETRAH; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:133402
AB Rac-N-substituted pantolactams are readily obtained in medium to good yields by reaction of rac-pantolactone with primary amines under acid catalysis, whether at 250°C in a pressure reactor or under microwave irradiation. It appears that the amine can react with pantolactone at the carbonyl carbon atom to give a hydroxyamide in a reversible way and at the methylene carbon atom to give an γ-amino acid. The last one on dehydration would give the corresponding pantolactam.
IT 565430-98-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(one-pot preparation of N-substituted pantolactams via reaction of pantolactones with primary amines under p-toluenesulfonic acid catalysis or microwave irradiation)
RN 565430-98-0 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)-3-hydroxy-4,4-dimethyl- (9CI) (CA INDEX NAME)

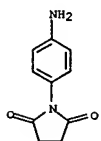


REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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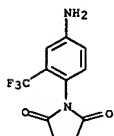
L13 ANSWER 79 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:128679 CAPLUS
 DOCUMENT NUMBER: 139:36421
 TITLE: A convenient synthesis of 4-aminoaryl substituted cyclic imides
 AUTHOR(S): Mederski, Werner W. K. R.; Baumgarth, Manfred; Germann, Martina; Kux, Dieter; Weitzel, Thomas
 CORPORATE SOURCE: Preclinical Pharmaceutical Research, Merck KGaA, Darmstadt, 64271, Germany
 SOURCE: Tetrahedron Letters (2003), 44(10), 2133-2136
 CODEN: TELEAY; ISSN: 0040-4039
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 139:36421
 GI



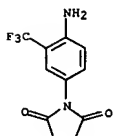
AB An efficient one-step synthesis of N-(4-nitroaryl) substituted glutarimides, e.g., I (R = NO₂), succinimides and maleimides in polyphosphoric acid is described together with the subsequent reduction to the corresponding anilines, e.g., I (R = NH₂). The scope and limitation of this cyclocondensation are presented.
 IT 34373-09-6P 35581-02-3P 91091-19-9P
 444002-89-5P 544445-47-8P 544445-48-9P
 544445-49-0P 544445-50-3P 544445-51-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of aminoarylglutarimides and -succinimides via heterocyclization of nitroanilines with glutaric acids or succinic acid followed by hydrogenation)
 RN 34373-09-6 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



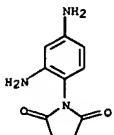
L13 ANSWER 79 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 544445-48-9 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-[4-amino-3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



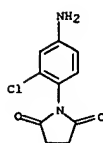
RN 544445-49-0 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(2,4-diaminophenyl)- (9CI) (CA INDEX NAME)



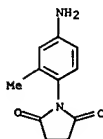
RN 544445-50-3 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-amino-2,3-dichlorophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 79 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

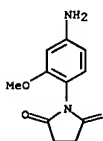
RN 35581-02-3 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-amino-2-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 91091-19-9 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-amino-2-methylphenyl)- (9CI) (CA INDEX NAME)

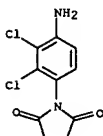


RN 444002-89-5 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(4-amino-2-methoxyphenyl)- (9CI) (CA INDEX NAME)

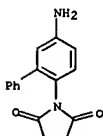


RN 544445-47-8 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-[4-amino-2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 79 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 544445-51-4 CAPLUS
 CN 2,5-Pyrrolidinedione, 1-(5-amino[1,1'-biphenyl]-2-yl)- (9CI) (CA INDEX NAME)

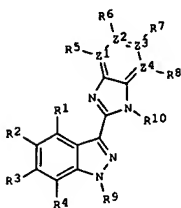


REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L13 ANSWER 80 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2003:42265 CAPLUS
DOCUMENT NUMBER: 138:106699
TITLE: Preparation of (indazolyl)benzimidazoles and analogs as tyrosine and serine/threonine kinase inhibitors
INVENTOR(S): Renhowe, Paul A.; Shafer, Cynthia M.; McBride, Chris; Silver, Joel; Pecchi, Sabina; Machajewski, Tim; Mccrea, Bill; Poon, Daniel; Thomas, Teresa
PATENT ASSIGNEE(S): Chiron Corporation, USA
SOURCE: PCT Int. Appl., 435 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003004488	A1	20030116	WO 2002-US20844	20020702
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PA, PE, PG, PH, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003207883	A1	20031106	US 2002-187967	20020702
EP 1401831	A1	20040331	EP 2002-752132	20020702
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2004536113	T2	20041202	JP 2003-510655	20020702
PRIORITY APPLN. INFO.: US 2001-302791P P 20010703				
WO 2002-US20844 W 20020702				

OTHER SOURCE(S): MARPAT 138:106699
GI



L13 ANSWER 81 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2003:5775 CAPLUS
DOCUMENT NUMBER: 138:89797
TITLE: Preparation of substituted oxazolidinones for combinational therapy in the treatment and/or prophylaxis of thromboembolic diseases
INVENTOR(S): Straub, Alexander; Lampe, Thomas; Fernerstorfer, Josef; Perzborn, Elisabeth; Pohlmann, Jens; Roehrig, Susanne; Schlemmer, Karl-Heinz
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 161 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003000256	A1	20030103	WO 2002-EP6237	20020607
WO 2003000256	C2	20030206		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, OM, PA, PE, PG, PH, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10129725	A1	20030102	DE 2001-10129725	20010620
CA 2451258	AA	20030103	CA 2002-2451258	20020607
EE 200400020	AA	20040415	EE 2004-20	20020607
EP 1411932	A1	20040428	EP 2002-738154	20020607
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002010941	A	20040608	BR 2002-10941	20020607
CN 1523986	A	20040825	CN 2002-812411	20020607
JP 2004534083	T2	20041111	JP 2003-506901	20020607
NZ 530223	A	20050729	NZ 2002-530223	20020607
BG 108443	A	20050331	BG 2003-108443	20031212
ZA 2003009799	A	20041220	ZA 2003-9799	20031218
US 2004242660	A1	20041202	US 2004-481297	20040628
PRIORITY APPLN. INFO.: DE 2001-10129725 A 20010620				
WO 2002-EP6237 W 20020607				

OTHER SOURCE(S): MARPAT 138:89797
GI

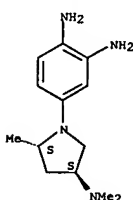
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to combinations of (A) oxazolidinones I [R1 = 5-X-2-thienyl (X = Cl, Br, Me, CF3); R2 = DA; A = phenylene; D = 5- or 6-membered heterocyclic ring containing S, N or O; R4 - R8 = H], or their pharmaceutically acceptable salts, hydrates, prodrugs or their mixts. and (B) other pharmaceutically active ingredients; to a method for producing

L13 ANSWER 80 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)

AB Title compds. I [wherein Z1-Z4 = C independently C or N; R1 = H, F, Cl, or Br; R2 = H, F, Cl, Br, CN, NO2, or (un)substituted CO2H, NH2, CONH2, NHCOMH2, etc.; R3 = H, F, Cl, Br, or (un)substituted alkoxy; R4, R9, and R10 = H; R5 and R8 = independently H, F, Cl, or (un)substituted alkyl, alkoxy, NH2, heterocyclyl, etc.; R6 and R7 = independently H, F, Cl, Br, CF3, CO2H, or (un)substituted alkyl, (heterocyclyl)alkoxy, arylalkoxy, alkoxyalkoxy, (heterocyclyl)heterocyclyl, arylheterocyclyl, heterocyclyloxy, aryloxy, NH2, CONH2, etc.; or R5 is absent if Z1 = N; or R6 is absent if Z2 = N; or R7 is absent if Z3 = N; or R8 is absent if Z4 = N; with the proviso that at least one of R1, R2, R3, R5, R6, R7, or R8 = H; and tautomers and pharmaceutically acceptable salts thereof] were prepared as tyrosine and serine/threonine kinase inhibitors. For example, dimerization of indazole-3-carboxylic acid with P03 followed by addition of 1,2-phenylenediamine in toluene gave 3-(1H-benzimidazol-2-yl)-1H-indazole. Seven hundred twenty-eight exemplary compds. were assayed for serine/threonine kinase activity in vitro, and the majority displayed an IC50 value of less than 10 µM with respect to VEGFR1, Flk-1, bFGF, Tie-2, CHK-1, cdc2, GSK-3, NEK-2, and PDGF.
IT 485832-97-1P, 4-[(2S,4S)-4-Dimethylamino-2-methylpyrrolidin-1-yl]-1,2-diaminobenzene
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of (indazolyl)benzimidazole kinase inhibitors by cyclizing indazolyl aldehydes or ketones with phenylenediamines)
RN 485832-97-1 CAPLUS
CN 1,2-Benzenediamine, 4-[(2S,4S)-4-(dimethylamino)-2-methyl-1-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

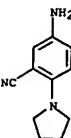


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 81 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
acid combinations; and to the use thereof as medicaments, in particular for the treatment and/or prophylaxis of thrombo-embolic diseases. Thus, the claimed oxazolidinone II was prepd. from epoxide III via epoxide ring opening with aniline deriv. IV, cyclization with carbonyldiimidazole, and N-acylation with 5-chlorothiophene-2-sulfonyl chloride. II was tested for antithrombotic activity in the arteriovenous shunt model (Rat) after [ED50 = 3 mg/kg (p.o.); IC50 = 0.7 nM]; II had a synergistic effect when used in combination with clopidogrel.
IT 2632-65-7, 4-(Pyrrolidin-1-yl)aniline 219921-68-3, 5-Amino-2-pyrrolidinobenzonitrile
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of substituted oxazolidinones for combinational therapy in the treatment and/or prophylaxis of thromboembolic diseases)
RN 2632-65-7 CAPLUS
CN Benzenamine, 4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

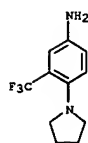


RN 219921-68-3 CAPLUS
CN Benzonitrile, 5-amino-2-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)

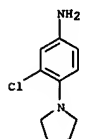


IT 16085-45-3P, 4-(1-Pyrrolidinyl)-3-(trifluoromethyl)aniline
16089-44-4P, 3-Chloro-4-(1-pyrrolidinyl)aniline
69131-62-0P, 1-(4-Amino-2-(trifluoromethyl)phenyl)-2-pyrrolidinone
177908-38-2P, [1-(4-Aminophenyl)-2-pyrrolidinyl]methanol
211247-49-3P, tert-Butyl 1-(4-aminophenyl)-L-Proline
220898-56-6P, 1-(4-Aminophenyl)-L-prolinamide 444002-88-4P
1-(4-Amino-2-chlorophenyl)-2-pyrrolidinone
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of substituted oxazolidinones for combinational therapy in the

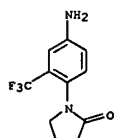
L13 ANSWER 81 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 treatment and/or prophylaxis of thromboembolic diseases)
 RN 16085-45-3 CAPLUS
 CN Benzenamine, 4-(1-pyrrolidinyl)-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)



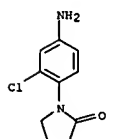
RN 16089-44-4 CAPLUS
 CN Benzenamine, 3-chloro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 69131-62-0 CAPLUS
 CN 2-Pyrrolidinone, 1-[4-amino-2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

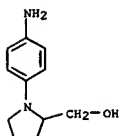


RN 177908-38-2 CAPLUS
 CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



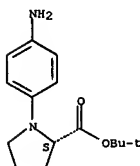
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 81 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



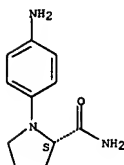
RN 211247-49-3 CAPLUS
 CN L-Proline, 1-(4-aminophenyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 220898-56-6 CAPLUS
 CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

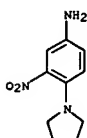


RN 444002-88-4 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-amino-2-chlorophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 82 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2003:2575 CAPLUS
 DOCUMENT NUMBER: 138:61045
 TITLE: Hybrid hair dye molecules containing active groups for
 hair conditioning and hair dyeing
 INVENTOR(S): Naumann, Frank; Akram, Mustafa; Hoeffkes, Horst; Kleen, Astrid; Rathjens, Andreas; Suenger, Georg; Huchel, Ursula
 PATENT ASSIGNEE(S): Henkel Kgaa, Germany
 SOURCE: Ger. Offen., 58 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10129466	A1	20030102	DE 2001-10129466	20010619
PRIORITY APPLN. INFO.: DE 2001-10129466 20010619				

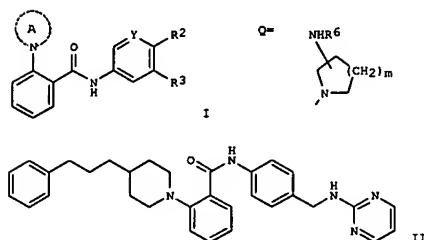
AB The invention concerns hybrid hair dyes with the general formula P - (S - F)x; where x = 1-3; P = hair conditioning group; F = hair dye, developer or coupler precursor, direct dye; S = spacer. Conditioning groups are sugars, vitamins, amino acids, peptides; dyes are derivs. of indole, melanin; isatin etc. Thus a hybrid dye that included 4-amino-3,5-dinitrobenzoic acid as direct dye, glucose as conditioner and a connecting NH group was synthesized from 4-chloro-3,5-dinitrobenzoic acid and glucosamine hydrochloride. The hybrid product was included in a dye composition as a 1.00 g ingredient, the other components were (g): cream base 50.00; ammonium sulfate 1.00; ammonia (25% solution) to pH 9.5; water to 100.
 The cream base included (g): Hydrenol D 17.00; Lorol 4.00; Eumulgin B2 1.50; Texapon NSO 30.00; Dehyton K 25.00; water 22.50.
 IT 5367-57-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (hybrid hair dye mols. containing active groups for hair conditioning and hair dyeing)
 RN 5367-57-7 CAPLUS
 CN Benzenamine, 3-nitro-4-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 83 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2002:946281 CAPLUS
 DOCUMENT NUMBER: 138:24723
 TITLE: Preparation of phenylcarboxamides with activity of suppressing secretion of apolipoprotein B
 INVENTOR(S): Annaka, Masayuki; Harada, Naoyuki; Tsujishima, Hidekazu; Nagata, Koichi; Takano, Mayumi
 PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002098871	A1	20021212	WO 2002-JP5356	20020531
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2003048887	A2	20030221	JP 2002-155742	20020529
PRIORITY APPLN. INFO.:			JP 2001-166377	A 20010601

OTHER SOURCE(S): MARPAT 138:24723
 GI

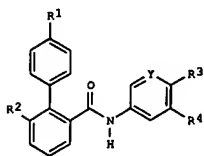


AB Phenylcarboxamides represented by the general formula (I) or pharmaceutically acceptable salts thereof (wherein the ring A is a nitrogen-containing aliphatic heterocyclic group which may be substituted; Y is =CH- or =N-; R2 is a group represented by the general formula Q, (CH2)pNHR7, or CONH(CH2)qR8

L13 ANSWER 84 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2002:946251 CAPLUS
 DOCUMENT NUMBER: 138:24722
 TITLE: Preparation of biphenylcarboxamides as apolipoprotein B secretion inhibitors and hypolipemics
 INVENTOR(S): Annaka, Masayuki; Kusama, Mari; Kamaya, Hiroshi; Tanaka, Keiko; Igashira, Shigeki
 PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 88 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

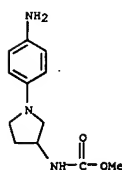
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002098839	A1	20021212	WO 2002-JP5358	20020531
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2003048872	A2	20030221	JP 2002-155743	20020529
PRIORITY APPLN. INFO.:			JP 2001-165983	A 20010601

OTHER SOURCE(S): MARPAT 138:24722
 GI



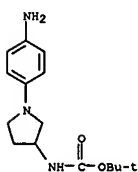
AB The title compds. I [R1 is optionally halogenated lower alkyl or the like; R2 is hydrogen, carboxyl, lower alkoxy, lower alkoxy, or the like; Y is CH or N; R3 is a group represented by the general formula (CH2)pNHR8 or the like; p is an integer (1 to 6); R8 is organic moiety; and R4 is hydrogen or halogen], useful as apolipoprotein B secretion inhibitors and hypolipemics (no data), are prepared. Processes for preparing I are disclosed.
 For example, 1-(4-(2-(4-(trifluoromethyl)phenyl)benzoylamino)phenyl)-3-(2-

L13 ANSWER 83 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 (wherein m is an integer of 0 to 3; R6 and R7 are an org. group; p and q are an integer of 1 to 6; and R8 is an optionally substituted heterocyclyl); and R3 is hydrogen or halogen] are prepd. These compds. are useful as secretion suppressants of apolipoprotein B, serum lipid-lowering agents, and as preventives and/or remedies for hyperlipidemia, ischemic heart diseases, atherosclerosis, coronary sclerosis, hypercholesterolemia, hypertriglyceridemia, familial hyperlipemia, hyperlipoproteinemia, arteriosclerosis, coronary heart diseases, ischemic cerebral diseases, stroke, circulatory or microcirculatory disorders, thrombosis, hyperglycemia, diabetes, acute hemorrhagic pancreatitis, obesity, lipodosis, and constipation (no data). Thus, 616 mg 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride was added to a soln. of 580 mg 2-(4-(aminobenzylamino)pyrimidine, 984 mg 2-[4-(3-phenylpropyl)piperidin-1-yl]benzoic acid, 35 mg 4-dimethylaminopyridine, and 431 mg 1-hydroxybenzotriazole in 15 mL DMF, and stirred at room temp. for 18 h during which 278 mg 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride was added after 14 h, to give 779 mg 2-[4-(2-[4-(3-phenylpropyl)piperidin-1-yl]benzoylamino)benzylamino]pyrimidine (II).
 IT 477981-70-7P, 1-(4-Aminophenyl)-3-[(methoxycarbonyl)amino]pyrrolidine
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of phenylcarboxamides as secretion suppressants of apolipoprotein B, serum lipid-lowering agents, and as preventives and/or remedies for diseases)
 RN 477981-70-7 CAPLUS
 CN Carbamic acid, [1-(4-aminophenyl)-3-pyrrolidinyl]-, methyl ester (9CI) (CA INDEX NAME)

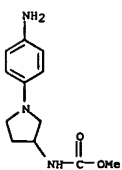


REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L13 ANSWER 84 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 pyrimidinyl)aminopyrrolidine was prepd.
 IT 330551-10-3P 477981-70-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of biphenylcarboxamides as apolipoprotein B secretion inhibitors and hypolipemics)
 RN 330551-18-3 CAPLUS
 CN Carbamic acid, [1-(4-aminophenyl)-3-pyrrolidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 477981-70-7 CAPLUS
 CN Carbamic acid, [1-(4-aminophenyl)-3-pyrrolidinyl]-, methyl ester (9CI) (CA INDEX NAME)



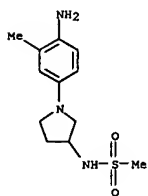
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L13 ANSWER 85 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:886503 CAPLUS
DOCUMENT NUMBER: 137:391014
TITLE: Color photographic method with good fogging inhibition, reduced film soiling, and stable color tone, and electrical image processing
INVENTOR(S): Fukazawa, Fumie; Iwagaki, Masaru
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

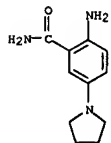
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002333692	A2	20021122	JP 2001-136068	20010507

PRIORITY APPLN. INFO.: JP 2001-136068 20010507

OTHER SOURCE(S): MARPAT 137:391014
AB The invention relates to photog. processes where color photog. materials containing H-Rf(CH₂)nLm (Rf = F-containing alkylene; L = linking group; X = OH, anionic group, cationic group, ampholytic group; n = 2-5; m ≥ 1) are treated for 95-120 s in a color developing bath containing specific developers. Bleaching or bleach-fixing baths may contain amine-based specific compds.
IT 143525-64-8
RL: NUU (Other use, unclassified); USES (Uses) (developer: color photog. method with good fogging inhibition, reduced film soiling, and stable color tone)
RN 143525-64-8 CAPLUS
CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



L13 ANSWER 86 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
of against a panel of human tumor cell lines, such as epidermoid carcinoma (HCT-8), lung carcinoma (A-549), ileocecal carcinoma (HCT-8), breast cancer (MCF-7), melanoma (SKMEL-2), ovarian cancer (IA9), glioblastoma (U-87-MG), bone (HOS), P-gp-expressing epidermoid carcinoma of the nasopharynx (KB-VIN), and prostate cancer (PC3) cell lines. Some of the compds. exhibit antiplatelet activity.
IT 314768-96-2P, 2-Amino-5-pyrrolidinylbenzamide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of 2-Ph-4-quinazolinones and 2-Ph-4-alkoxy-quinazolinones)
as anticancer and antiplatelet drugs)
RN 314768-96-2 CAPLUS
CN Benzamide, 2-amino-5-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

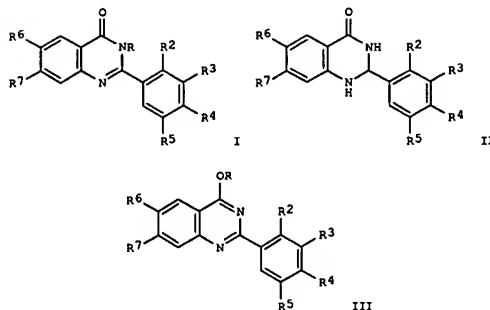
FORMAT

L13 ANSWER 86 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:864387 CAPLUS
DOCUMENT NUMBER: 137:353059
TITLE: Preparation of 2-phenyl-4-quinazolinones and 2-phenyl-4-alkoxy-quinazolinones as anticancer and antiplatelet drugs.
INVENTOR(S): Kuo, Sheng-chu; Hour, Mann-jen; Huang, Li-jiau; Lee, Kuo-hsiung
PATENT ASSIGNEE(S): National Science Council, Taiwan
SOURCE: U.S., 23 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6479499	B1	20021112	US 2000-605618	20000628

PRIORITY APPLN. INFO.: US 2000-605618 20000628

OTHER SOURCE(S): MARPAT 137:353059
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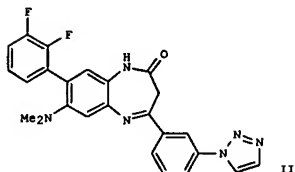
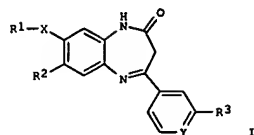
AB Title compds. [I, II, III; R2-R5 = H, (CH₂)nMe, OH, O(CH₂)nMe, X, amino; n = 0-4; X = F, Cl, Br; R = (CH₂)nMe, (CH₂)nCO₂(CH₂)nMe; R6, R7 = H, (CH₂)nMe, O(CH₂)nMe, X, amino, pyrrolidinyl, piperidinyl, morpholinyl; R6R7 = OCH₂O], were prepared. Thus, 2-(3'-methoxyphenyl)-6-pyrrolidinyl-4-quinazolinone (preparation given) inhibited IA9 human ovarian cancer cell number with ED50 = 0.09 µg/mL. Title compds. were evaluated for cytotoxicity

L13 ANSWER 87 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:814112 CAPLUS
DOCUMENT NUMBER: 137:325447
TITLE: Preparation of dihydrobenzo[b][1,4]diazepin-2-ones as mGluR2 antagonists for treatment of neurological disorders
INVENTOR(S): Adam, Geo; Goetschi, Erwin; Mutel, Vincent; Wichmann, Juergen; Woltering, Thomas Johannes
PATENT ASSIGNEE(S): F. Hoffmann-La Roche AG, Switz.
SOURCE: PCT Int. Appl., 202 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002083652	A1	20021024	WO 2002-EP3644	20020402
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, T2, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, T2, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2442557	AA	20021024	CA 2002-2442557	20020402
EP 1379511	A1	20040114	EP 2002-737911	20020402
EP 1379511	B1	20050720		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002008891	A	20040420	BR 2002-8891	20020402
JP 2004529925	T2	20040930	JP 2002-581408	20020402
CN 1535266	A	20041006	CN 2002-808181	20020402
NZ 528315	A	20050429	NZ 2002-528315	20020402
AT 299868	E	20050815	AT 2002-737911	20020402
RU 2263112	C2	20051027	RU 2003-130637	20020402
PT 1379511	T	20051031	PT 2002-737911	20020402
US 2002193367	A1	20021219	US 2002-115826	20020403
US 6544985	B2	20030408		
ZA 2003007243	A	20041216	ZA 2003-7243	20030916
NO 2003004576	A	20031112	NO 2003-4576	20031010
BG 108254	A	20040930	BG 2003-108254	20031010

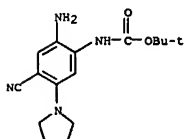
PRIORITY APPLN. INFO.: EP 2001-109125 A 20010412
WO 2002-EP3644 W 20020402

OTHER SOURCE(S): MARPAT 137:325447
GI

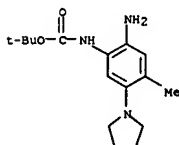


AB Title compds. I [wherein X = single bond or ethynediyl group; when X = single bond, R1 = CN, halo, (cyclo)alkyl, (fluoro)alkoxy, fluoroalkyl, or (un)substituted pyrrolyl or Ph; when X = ethynediyl, R1 = (un)substituted Ph; R2 = NR4R5, alkoxy, or R5 = (un)substituted oxopiperazinyl, pyrrolidinyl, or piperidinyl; R3 = halo, (fluoro)alkyl, alkoxy, CN, (CH2)nCO2R5, (CH2)nCONR4R5, or (un)substituted 5-membered heteroaryl; R4 = H, (cyclo)alkyl, fluoroalkyl, or alkoxyalkyl; R5 = H, (cyclo)alkyl, fluoroalkyl, alkoxyalkyl, (CH2)m-dialkylamino, (CH2)m-morpholinyl, (CH2)m-piperidinyl, or hydroxyalkyl; Y = CH, or N; m = 2-4; n = 0-4; or their pharmaceutically acceptable salts thereof] were prepared as metabotropic glutamate receptor 2 (mGluR2) antagonists. For example, coupling (5-amino-2-dimethylamino-2',3'-difluorobiphenyl-4-yl)carbamate tert-butyl ester with 3-oxo-3-(3-[[1,2,3]triazol-1-yl]phenyl)propionic acid Et ester (preparation of starting materials given) in toluene afforded the amide, which was cyclized using TFA to give the benzodiazepine II (K_i = 0.070 μM). Twenty-nine compds. of the invention displayed mGluR2 antagonist activity with K_i values ranging from 0.003 μM to 0.48 μM. Thus, I are useful for the treatment or prevention of acute and/or chronic neurol. disorders, such as psychosis, schizophrenia, Alzheimer's disease, cognitive disorders, and memory deficits (no data).

IT 473547-64-7P, [2-Amino-4-chloro-5-(pyrrolidin-1-yl)phenyl]carbamate tert-butyl ester 473547-66-9P, [2-Amino-5-(pyrrolidin-1-yl)-4-(trifluoromethyl)phenyl]carbamate tert-butyl ester 473547-69-2P, [2-Amino-4-fluoro-5-(pyrrolidin-1-yl)phenyl]carbamate tert-butyl ester 473547-82-9P, [2-Amino-4-cyano-5-(pyrrolidin-1-yl)phenyl]carbamate tert-butyl ester 473547-93-2P, [2-Amino-4-methyl-5-(pyrrolidin-1-yl)phenyl]carbamate



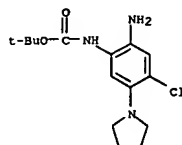
RN 473547-93-2 CAPLUS
CN Carbamate acid, [2-amino-4-methyl-5-(1-pyrrolidinyl)phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



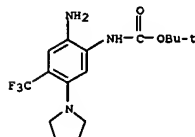
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

acid tert-butyl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of benzodiazepinone mGluR2 antagonists by coupling benzenediamines with dioxinones or oxopropanoates followed by cyclization)

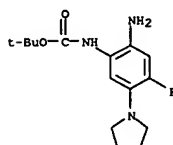
RN 473547-64-7 CAPLUS
CN Carbamate acid, [2-amino-4-chloro-5-(1-pyrrolidinyl)phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 473547-66-9 CAPLUS
CN Carbamate acid, [2-amino-5-(1-pyrrolidinyl)-4-(trifluoromethyl)phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 473547-69-2 CAPLUS
CN Carbamate acid, [2-amino-4-fluoro-5-(1-pyrrolidinyl)phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 473547-82-9 CAPLUS
CN Carbamate acid, [2-amino-4-cyano-5-(1-pyrrolidinyl)phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2002:802780 CAPLUS
DOCUMENT NUMBER: 137:317831
TITLE: Image formation method of silver halide full color photographic film and digital imaging process using image sensor
INVENTOR(S): Fukazawa, Fumie; Iwakaki, Masaru
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 57 pp.
CODEN: JKKXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002311542	A2	20021023	JP 2001-113797	20010412

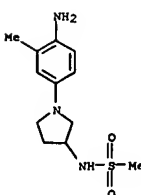
PRIORITY APPLN. INFO.: JP 2001-113797 20010412

OTHER SOURCE(S): MARPAT 137:317831
AB The invention relates to an image formation method of a full color photog.

material, wherein the photog. material contains a polymeric fluorosurfactant compound represented by -(C(R1)(COOLRf)(CH2)m-(C(R2)(COOL2Xp)CH2)n- [Rf = F-containing alkyl; L1, L2 = single bond, connecting group; x = H, hydroxy, anionic group, cationic group, amphoteric group; R1, R2 = H, lower alkyl; m, n = d.p.; p ≥ 1] and a color development process is carried out for 95-120 s. The color developer contains a specified color developing agent(s) [7 Markush structures are given] and a compound R1-NR2-OH [R1, R2 = Cl-3-alkyl, alkoxy], the (bleach) fixing solution contains a specified compound(s) [4 Markush structure are given], the color developer shows a pH of ≥ 10.5, and the final processing solution is free from an aldehyde compound

IT 143525-64-8
RL: TEM (Technical or engineered material use); USES (Uses) (photog. color developing agent for improving color hue and image stability)

RN 143525-64-8 CAPLUS
CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)

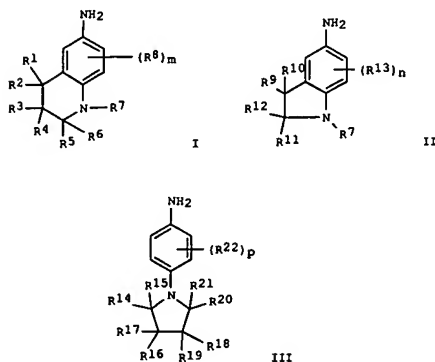


L13 ANSWER 89 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2002:792695 CAPLUS
 DOCUMENT NUMBER: 137:331008
 TITLE: Image formation of silver halide photographic material and electric signal image information
 INVENTOR(S): Fukazawa, Fumie; Iwakaki, Masaru
 PATENT ASSIGNEE(S): Konica Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002303956	A2	20021018	JP 2001-105668	20010404

PRIORITY APPLN. INFO.: JP 2001-105668 20010404

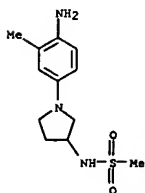
OTHER SOURCE(S): MARPAT 137:331008
 GI



AB In the material comprising a support coated with red-, green-, blue-sensitive layers and nonphotosensitive layers, 21 of the photog. constitutive layer contains R1SiMe2O(SiMe2O)m(SiMe2R2O)nSiMe2R3 (21 of R1-3 = hydrophilic group, others = Me; m, n = integer). In the image formation, (1) the developing processing time may be 95-120 s, (2) the developer may contain 21 selected from I, II, III (R1-6, R9-12, R14-21 = H, substituent; R7 = alkyl; R8, R13, R22 = substituent; m,

L13 ANSWER 89 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 n = 0-3; p = 0-4), and 4 other p-phenylenediamine deriva, (3) the developer may be replenished by a soln. made from solid processing agent, (4) the developer may contain R1NR2(OH) (R1-2 = Cl-3 alkyl, alkoxy, they may form a ring), (5) pH of the developer may be 210.5, (6) 21 of bleaching and bleach-fixing agent may be (A2CH2)AlCHNHCXCH2A3 (CH2R4), A(CH2)n1M(CH2CO2M1) (CH2CO2M2), BN[(CH2)n2CO2M4] [(CH2)n3CO2M5], and (A6X2)NHCR(X1A5) (CO2M6) [A1-4 = CH2OH, PO3M2, CO2M; X = C2-6 alkylene, (B1O)nB2; n = 1-8; B1-2 = Cl-5 alkylene; n1 = 1, 2; A = CO2M3, OH, NH2, PO3M32; n2-3 = 1, 2; B = H, Cl-3 alkyl; A5-6 = CO2M7, PO3M72 SO3M7, OH, mercapto; R = H, aliph. or arom. group; X1-2 = divalent aliph. or arom. group or linkage made of them; M, M1-7 = H, salt-forming atom], (7) the developing process may be a reversal processing comprising 1st black-and-white development, reversal processing, color developing, bleaching and/or bleach-fixing, and fixing processes, or (8) the final processing bath may contain essentially no aldehyde. The formed image is read by image sensor, converted and calcd. to form elec. signal image information. The material gives high d. images with good gradation balance without stain and fog, even when developing condition changes.

IT 143525-64-8
 RL: TEM (Technical or engineered material use); USES (Uses) (photog. developer containing phenylenediamine or hydroxylamine compound)
 RN 143525-64-8 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI) (CA INDEX NAME)



L13 ANSWER 90 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2002:791975 CAPLUS
 DOCUMENT NUMBER: 137:310701
 TITLE: Preparation of ethanediamides as inhibitors of blood coagulation factor Xa for the treatment of thromboembolic illnesses
 INVENTOR(S): Nederski, Werner; Cezanne, Bertram; Dorsch, Dieter; Tsaklakis, Christos; Gleitz, Johannes; Barnes, Christopher
 PATENT ASSIGNEE(S): Merck Patent GmbH, Germany
 SOURCE: Ger. Offen., 34 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10117823	A1	20021017	DE 2001-10117823	20010410
CA 2445538	AA	20021024	CA 2002-2445538	20020318
WO 2002083630	A1	20021024	WO 2002-EP2963	20020318

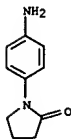
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, ES, FI, GB, GR, GM, GU, HK, HU, ID, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PA, PE, PG, PH, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 EP 1377543 A1 20040107 EP 2002-761892 20020318
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 CN 1514823 A 20040721 CN 2002-811605 20020318
 US 2004220411 A1 20041104 US 2003-474969 20031016
 ZA 2003008669 A 20050207 ZA 2003-8669 20031106
 PRIORITY APPLN. INFO.: DE 2001-10117823 A 20010410
 WO 2002-EP2963 W 20020318

OTHER SOURCE(S): MARPAT 137:310701
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [R1, R3 = H, aryl, aryl-alkyl, etc.; R2 = aryl, Het; R4 = H, OH, O-aryl, etc.; X = aryl, aryl-alkyl, etc.; aryl = (un)substituted Ph, naphthyl, biphenyl; Het = (un)substituted aromatic heterocyclic with 1-4 N, O and/or S atoms; with provisos], their pharmaceutically acceptable salts and formulations were prepared For example, Ra-N1/H2 reduction of oxadiazole II, prepared from 3-[3-(bromomethyl)phenyl]-5-methyl-1,2,4-oxadiazole in 6-steps, followed by amine deprotection afforded carboximidamide III.TFA. In inhibition studies of blood coagulation factor Xa, 7-specific examples of I exhibited IC50 values ranging from 6.0 μM - 9.6 nM, e.g., IC50 of carboximidamide III.TFA = 10 nM. Approx.

L13 ANSWER 90 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
71-specific examples of compds. I and 52-intermediates were prepd.
IT 13691-22-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of ethanediamides as inhibitors of coagulation factor Xa
for the treatment of thromboembolic illnesses)
RN 13691-22-0 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

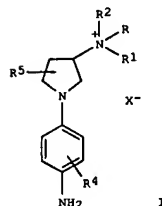


L13 ANSWER 91 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:768546 CAPLUS
DOCUMENT NUMBER: 137:283939
TITLE: Quaternized pyrrolidines as primary intermediates for oxidative coloration of hair
INVENTOR(S): Lim, Mu-Il; Pan, Yuh-Guo
PATENT ASSIGNEE(S): Clairol Incorporated, USA
SOURCE: U.S., 72 pp., Cont.-in-part of U.S. Ser. No. 874,080, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6461391	B1	20021009	US 2001-11804	20011205
US 2002106341	A1	20020808	US 2000-730707	20001206
US 6521761	B2	20030218		

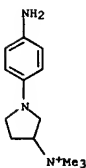
PRIORITY APPLN. INFO.:
US 2000-730707 A2 20001206
US 2001-874080 B2 20010606

OTHER SOURCE(S): MARPAT 137:283939
GI



AB Primary intermediates useful in hair coloring systems comprise quaternized pyrrolidine compds. (I; R, R3 = C1-22 alkyl or hydroxyalkyl; R1, R2 = C1-4 alkyl; R4 = H, C1-5 alkyl or alkyl substituted with hydroxy or amino moieties; R5 = H, OH; X = Cl, Br, I, R3SO4). For example, [1-(4-nitrophenyl)pyrrolidin-3-yl]dimethylamine (470 mg) reacted with Me iodide (567 mg) to give 1-(4-nitrophenyl)-N,N,N-trimethylpyrrolidin-3-aminium iodide (894 mg, 92% yield), which was then hydrogenated to produce 1-(4-aminophenyl)-N,N,N-trimethylpyrrolidin-3-aminium iodide (505 mg, 95% yield). A hair coloring composition contained the primary intermediate and the coupler (0.025 M each) in a base consisting of cocamidopropylbetaine 17 g, monoethanol amine 2 g, oleic acid 0.75 g, citric acid 0.1 g, ammonium

L13 ANSWER 91 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
hydroxide (28%) 5 g, behentrimonium chloride 0.5 g and water to 100 g.
IT 466651-65-0P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oxidative hair coloring systems containing quaternized pyrrolidine compds. as primary intermediates)
RN 466651-65-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, methyl sulfate (9CI) (CA INDEX NAME)
CM 1
CRN 435275-83-5
CMF C13 H22 N3

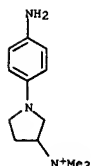


CM 2
CRN 21228-90-0
CMF C H3 O4 S

Me-O-SO3-

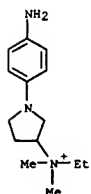
IT 435275-60-8P 435275-61-9P 435275-62-0P
435275-64-2P 435275-65-3P 435275-66-4P
435275-67-5P 435275-68-6P 435275-69-7P
435275-70-0P 435275-71-1P 435275-72-2P
435275-73-3P 435275-74-4P 435275-75-5P
435275-82-4P 466651-63-8P 466651-64-9P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of quaternized pyrrolidine compds. as primary intermediates for oxidative hair coloration)
RN 435275-60-8 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)

L13 ANSWER 91 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



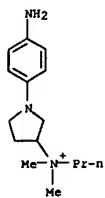
• I-

RN 435275-61-9 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-ethyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)



• I-

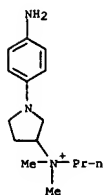
RN 435275-62-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

RN 435275-64-2 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, propyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1
 CMF C15 H26 N3

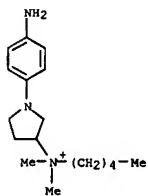


CM 2

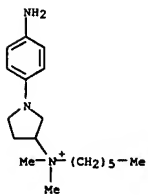
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n-Pr-O-SO₃⁻

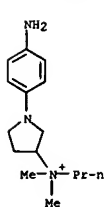
RN 435275-65-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide (9CI) (CA INDEX NAME)

● I⁻

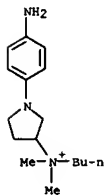
RN 435275-68-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-hexyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

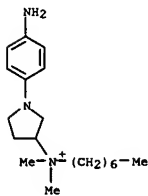
RN 435275-69-7 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-heptyl-, iodide (9CI) (CA INDEX NAME)

● Br⁻

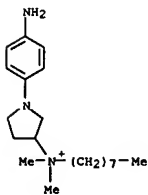
RN 435275-66-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-butyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

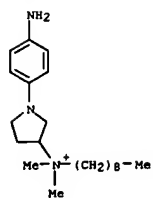
RN 435275-67-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

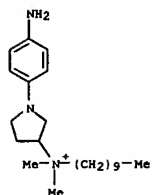
RN 435275-70-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

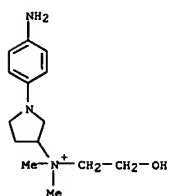
RN 435275-71-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-nonyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

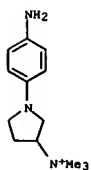
RN 435275-72-2 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-decyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

RN 435275-73-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexadecyl-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● Br⁻

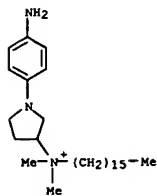
RN 435275-82-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

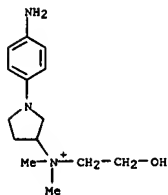
RN 466651-63-8 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1

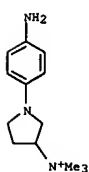
CRN 435275-83-5
 CMF C13 H22 N3

● I⁻

RN 435275-74-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

RN 435275-75-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)



CM 2

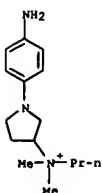
CRN 14996-02-2
 CMF H O4 S



RN 466651-64-9 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 435275-63-1
 CMF C15 H26 N3



CM 2

CRN 14996-02-2
 CMF H O4 S

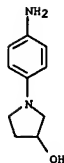


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L13 ANSWER 92 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:736068 CAPLUS
 DOCUMENT NUMBER: 137:252682
 TITLE: Dyeing compositions for keratin fibers containing paraphenylenediamine derivatives with pyrrolidinyl group
 INVENTOR(S): Audoussat, Marie-Pascale
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002074259	A2	20020926	WO 2002-FR859	20020311
WO 2002074259	A3	20040729		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
FR 2822374	A1	20020927	FR 2001-3832	20010321
FR 2822374	B1	20040709		
PRIORITY APPLN. INFO.: MARPAT 137:252682				
AB The invention relates to novel compns. for the oxidation dyeing of keratin fibers comprising a first oxidation base of the paraphenylenediamine with pyrrolidinyl group type, a second paraphenylenediamine-type oxidation base and a 1,3-dihydroxybenzene coupling agent. The invention also relates to a dyeing method and a device using said composition A hair dye preparation contained N-(4-aminophenyl)-3-hydroxypyrrolidine dihydrochloride 0.036, paraphenylenediamine 0.28, 1,3-dihydroxybenzene 0.21, 3-aminophenol 0.034, 4-methylaminophenol.H2SO4 0.018, 1-β-hydroxyethoxy-2,4-diaminobenzene dihydrochloride 0.009, and excipients and water q.s. 100 g.				
IT 461390-11-4				
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (dyeing compns. for keratin fibers containing paraphenylenediamine derivs. with pyrrolidinyl group)				
RN 461390-11-4 CAPLUS				
CN 3-Pyrrolidinol, 1-(4-aminophenyl)-, dihydrochloride (9CI) (CA INDEX NAME)				

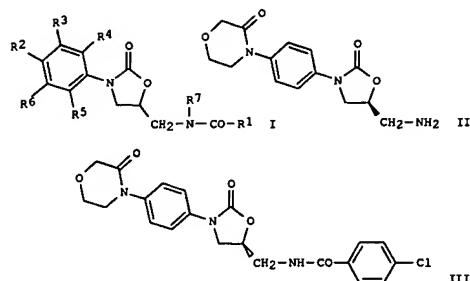


● 2 HCl

L13 ANSWER 93 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:609543 CAPLUS
 DOCUMENT NUMBER: 137:169507
 TITLE: Preparation of oxazolidinones and their use as inhibitors of human blood-coagulation factor Xa
 INVENTOR(S): Straub, Alexander; Lampe, Thomas; Fernerstorfer, Josef; Ferstborn, Elisabeth; Pohlmann, Jens; Roshrig, Susanne; Schlemmer, Karl-Heinz
 PATENT ASSIGNEE(S): Bayer Ag, Germany
 SOURCE: Ger. Offen., 20 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10105989	A1	20020814	DE 2001-10105989	20010209
CA 2437587	AA	20020822	CA 2002-2437587	20020128
WO 2002064575	A1	20020822	WO 2002-EP857	20020128
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LA, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1366029	A1	20031203	EP 2002-702317	20020128
EP 1366029	B1	20050928		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004521905	T2	20040722	JP 2002-564508	20020128
US 2005080081	A1	20050414	US 2003-470861	20020128
PRIORITY APPLN. INFO.: DE 2001-10105989 A 20010209				
WO 2002-EP857 W 20020128				

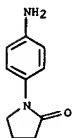
OTHER SOURCE(S): MARPAT 137:169507
 GI



AB Title compds. I (R1 = (un)substituted aryl or heteroaryl with 1-2 heteroatoms, e.g. N, O, S; R2 = CONR8R9, NR10COR11, N(O)XR12R13; R3-R6 = H, halo, alkyl, etc.; R7 = H, alkyl; R8 = H, (un)substituted alkyl, e.g., halo, amino, OH, etc.; R9-R11 = (un)substituted alkyl, e.g., halo, amino, OH, etc.; R8 and R9 are bond together with N atom to form a heterocyclic ring; R10, R11 with N(CO) form a heterocyclic ring; R12 and R13 are bond together with N atom to form a heterocyclic ring; x = 0, 1) were prepared For example, coupling of II, e.g., prepared from 2-[(2S)-oxiranylmethyl]-1H-isoindole-1,3(2H)-dione in 3 steps, and 4-chlorobenzoyl chloride provide claimed oxazolidinone III in 89% yield. Oxazolidinone III inhibited human blood-coagulation factor Xa with an IC50 of 20 nM. Compds. I are useful in the area of blood coagulation.

IT 13691-22-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; preparation of oxazolidinones and their use as inhibitors of human blood-coagulation factor Xa)

RN 13691-22-0 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



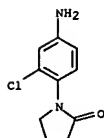
ACCESSION NUMBER: 2002:555466 CAPLUS
DOCUMENT NUMBER: 137:125096
TITLE: Preparation of phenyl derivatives containing inhibitors of coagulation factor for prophylaxis and/or therapy of thromboembolic disorders
INVENTOR(S): Dorsch, Dieter; Mederski, Werner; Tsaklakis, Christos; Cezanne, Bertram; Gleitz, Johannes; Barnes, Christopher
PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
SOURCE: PCT Int. Appl., 133 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002057236	A1	20020725	WO 2001-EP14296	20011205
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10102322	A1	20020725	DE 2001-10102322	20010119
CA 2434937	AA	20020725	CA 2001-2434937	20011205
EP 1351938	A1	20031015	EP 2001-989580	20011205
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2001016804	A	20040217	BR 2001-16804	20011205
CN 1518541	A	20040804	CN 2001-823061	20011205
JP 2004535362	T2	20041125	JP 2002-557917	20011205
ZA 2003006419	A	20041118	ZA 2003-6419	20030818
US 2004087582	A1	20040506	US 2003-466680	20031218
PRIORITY APPLN. INFO.:			DE 2001-10102322	A 20010119
			WO 2001-EP14296	W 20011205

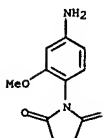
OTHER SOURCE(S): MARPAT 137:125096
AB Novel compds. of the formula R1R2C6H3-W-X-Y-T in which W, X, Y, T, R1 and R2 are as defined in Patent Claim 1, are inhibitors of coagulation factor Xa and can be employed for the prophylaxis and/or therapy of thromboembolic disorders. Thus, 3-(5-methyl-1,2,4-oxadiazol-3-yl)phenol wa reacted with Et 2-bromoisovalerate, sodium hydroxide, thionyl chloride, 4-morpholin-4-ylaniline, followed a hydrogenation in acetic acid to give 2-(3-(aminophenoxy)-N-(4-morpholin-4-ylphenyl)valeramide acetate, showing IC50=3x10⁻⁷ M and IC50=4.9x10⁻⁷ M.
IT 444002-88-4P 444002-89-SP 444002-91-SP
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(Intermediate; preparation of Ph derivs. containing inhibitors of coagulation factor for prophylaxis and/or therapy of thromboembolic disorders)

RN 444002-88-4 CAPLUS

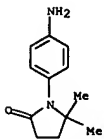
CN 2-Pyrrolidinone, 1-(4-amino-2-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 444002-89-5 CAPLUS
CN 2,5-Pyrrolidinedione, 1-(4-amino-2-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 444002-91-9 CAPLUS
CN 2-Pyrrolidinone, 1-(4-aminophenyl)-5,5-dimethyl- (9CI) (CA INDEX NAME)

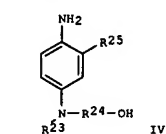
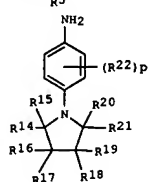
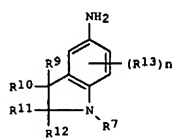
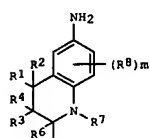


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L13 ANSWER 95 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2002:503928 CAPLUS
 DOCUMENT NUMBER: 137:85893
 TITLE: Image formation of silver halide photographic material
 INVENTOR(S): and image information forming method
 PATENT ASSIGNEE(S): Fukazawa, Fumishige
 SOURCE: Konica Co., Japan
 Jpn. Kokai Tokkyo Koho, 59 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002189276	A2	20020705	JP 2000-388782	20001221
PRIORITY APPLN. INFO.: JP 2000-388782				

OTHER SOURCE(S): MARPAT 137:85893
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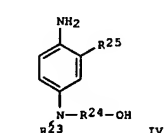
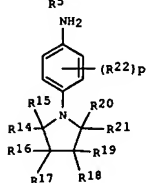
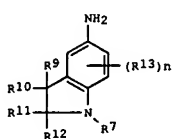
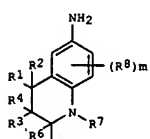


AB The image formation by exposing and developing a photog. material comprising a support having thereon red-, green-, and blue-sensitive layers and nonphotosensitive layers is characterized by the following:
 (1) (A) one of the layer contains [(RfO)n(PFC)COY]kLXm (I; Rf = perfluoroalkyl with C1-4; n, m = 1-5; k = 1-3; PFC = perfluorocycloalkane; Y = O- or N-containing linkage; L = linkage; X = water soluble polar group containing anionic,

L13 ANSWER 96 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2002:503927 CAPLUS
 DOCUMENT NUMBER: 137:85892
 TITLE: Image formation of silver halide photographic material
 INVENTOR(S): and formation of image information
 PATENT ASSIGNEE(S): Fukazawa, Fumishige; Iwagaki, Masaru
 SOURCE: Konica Co., Japan
 Jpn. Kokai Tokkyo Koho, 59 pp.
 CODEN: JKOXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002189275	A2	20020705	JP 2000-388781	20001221
PRIORITY APPLN. INFO.: JP 2000-388781				

OTHER SOURCE(S): MARPAT 137:85892
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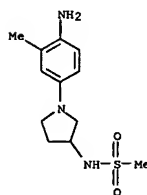


AB The image formation by exposing and developing a photog. material comprising a support having thereon red-, green-, and blue-sensitive layers and nonphotosensitive layers is characterized by the following:
 (1) (A) one of the layer contains Rf(ORf')nLXm (I; Rf = ≥ 1 F-containing alkyl, aryl, or alkenyl; Rf' = ≥ 1 F-containing alkylene; L = linkage; X = OH, anionic or cationic group; n, m ≥ 1) and (B) developing processing time is 95-120 s. The image formation is characterized by that

L13 ANSWER 95 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 cationic, nonionic, or amphoteric group) and (B) developing processing time is 95-120 s. The image formation is characterized by that (2) (A) and (C) the developer contains ≥ 1 selected from I, II, III, (R1-6, R8-12, R14-21 = H, substituent; R7 = alkyl; R8, R13, R22 = substituent; m, n = 0-3; p = 0-4), IV (R23 = (substituted) C1-6 alkyl, hydroxyalkyl with C2-6 main chain; R24 = alkylene or hydroxyalkylene with C2-6 main chain; R25 = C1-4 linear, branched or cyclic alkyl; R23 = Et; R24 = ethylene, R25 = Me) and three other deriv. of IV. The image formation is characterized by that (3) (A) and (D) the developer is replenished by a replenisher prep. by using a solid processing agent;

(4) (A) and (E) the developer contains R1NR2OH (R1-2 = C1-3 alkyl, alkoxy, they may form a ring). The image formation is characterized by that (5) (A) and (F) the bleaching or bleach-fixing soln. contains ≥ 1 selected from A1(A2CH2)CHNHNHCH3(CH2A4) (A1-4 = CH2OH, PO3M2, CO2M; M = H, atom to form salt; X = C2-6 alkylene, (B10)nB2; n = 1-8; B1-2 = C1-5 alkylene), A(CH2)n1N(CH2CO2M1)(CH2CO2M2) (n1, n2 = 1-2; A = CO2M3, OH, PO3M32; M1-3 = H, atom to form salt) BN[(CH2)n2CO2M4][(CH2)n3CO2M5) (n2, n3 = 1-2; B = H, C1-3 alkyl; M4-5 = H, atom to form salt), and A6X2MHCRCO2M6)X1A5 (A5-6 = CO2M7, PO3M72, SO3M7, OH, mercapto; M7 = H, atom to form salt; R = H, aliph. or arom. hydrocarbon; X1-2 = divalent aliph. or arom. group). The image formation is characterized by (6) (A) and (G) using a developer with pH ≥ 10.5 ; (7) (A) and (H) developing process is a reversal developing comprising 1st black-and-white developing, reversal processing, color developing, bleaching, fixing or bleach-fixing processes, (8) (A) and (I) the finishing processing tank contains essentially no aldehydes. The formed images are read by image sensor to convert the image information to elec. signal for image processing. High d. images with good gradation and storage stability without fog and processing stain are obtained.

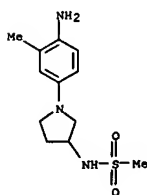
IT 143525-64-8
 RL: TEM (Technical or engineered material use); USES (Uses)
 (photog. developer containing benzopiperidine, benzopyrrolidine, or aniline derivative)
 RN 143525-64-8 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)



L13 ANSWER 96 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 (2) (A) and (C) the developer contains ≥ 1 selected from I, II, III, (R1-6, R9-12, R14-21 = H, substituent; R7 = alkyl; R8, R13, R22 = substituent; m, n = 0-3; p = 0-4), IV (R23 = (substituted) C1-6 alkyl, hydroxyalkyl with C2-6 main chain; R24 = alkylene or hydroxyalkylene with C2-6 main chain; R25 = C1-4 linear, branched or cyclic alkyl; R23 = Et; R24 = ethylene, R25 = Me) and three other deriv. of IV. The image formation is characterized by that (3) (A) and (D) the developer is replenished by a replenisher prep. by using a solid processing agent;

(4) (A) and (E) the developer contains R1NR2OH (R1-2 = C1-3 alkyl, alkoxy, they may form a ring). The image formation is characterized by that (5) (A) and (F) the bleaching or bleach-fixing soln. contains ≥ 1 selected from A1(A2CH2)CHNHNHCH3(CH2A4) (A1-4 = CH2OH, PO3M2, CO2M; M = H, atom to form salt; X = C2-6 alkylene, (B10)nB2; n = 1-8; B1-2 = C1-5 alkylene), A(CH2)n1N(CH2CO2M1)(CH2CO2M2) (n1, n2 = 1-2; A = CO2M3, OH, PO3M32; M1-3 = H, atom to form salt) BN[(CH2)n2CO2M4][(CH2)n3CO2M5) (n2, n3 = 1-2; B = H, C1-3 alkyl; M4-5 = H, atom to form salt), and A6X2MHCRCO2M6)X1A5 (A5-6 = CO2M7, PO3M72, SO3M7, OH, mercapto; M7 = H, atom to form salt; R = H, aliph. or arom. hydrocarbon; X1-2 = divalent aliph. or arom. group). The image formation is characterized by (6) (A) and (G) using a developer with pH ≥ 10.5 ; (7) (A) and (H) developing process is a reversal developing comprising 1st black-and-white developing, reversal processing, color developing, bleaching, fixing or bleach-fixing processes, (8) (A) and (I) the finishing processing tank contains essentially no aldehydes. The formed images are read by image sensor to convert the image information to elec. signal for image processing. High d. images with good gradation and storage stability without fog and processing stain are obtained.

IT 143525-64-8
 RL: TEM (Technical or engineered material use); USES (Uses)
 (photog. developer containing benzopiperidine, benzopyrrolidine, or aniline derivative)
 RN 143525-64-8 CAPLUS
 CN Methanesulfonamide, N-[1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]- (9CI)
 (CA INDEX NAME)



L13 ANSWER 97 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2002:465965 CAPLUS
 DOCUMENT NUMBER: 137:47128
 TITLE: Preparation of of ureido- and carbamoyloxy-substituted amides as inhibitors of factor Xa for the treatment of clotting disorders and tumors.
 INVENTOR(S): Dorsch, Dieter; Mederski, Werner; Tsaklakidis, Christos; Cezanne, Bertram; Gleitz, Johannes; Barnes, Christopher
 PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 92 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

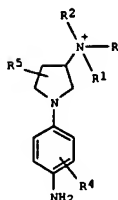
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002048099	A1	20020620	WO 2001-EP13545	20011121
W: AS, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10063008	A1	20020620	DE 2000-10063008	20001216
CA 2431766	AA	20020620	CA 2001-2431766	20011121
AU 2002021881	A5	20020624	AU 2002-21881	20011121
EP 1341755	A1	20030910	EP 2001-270524	20011121
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BR 2001016115	A	20031223	BR 2001-16115	20011121
JP 2004515538	T2	20040527	JP 2002-549632	20011121
WO 2003002695	A	20020613	WO 2003-2695	20030613
US 2004038858	A1	20040226	US 2003-450651	20030616
ZA 2003005455	A	20040826	ZA 2003-5455	20030715
US 2005137230	A1	20050623	US 2005-59655	20050217
PRIORITY APPLN. INFO.:			DE 2000-10063008	A 20001216
			WO 2001-EP13545	W 20011121
			US 2003-450651	A3 20030616

OTHER SOURCE(S): MARPAT 137:47128
 AB DNHCOXCHRI(ONH(CH2)N)EW [D = (substituted) Ph, pyridyl; R1 = H, Ar, Het, cycloalkyl, (substituted) A; R2 = H, A; E = (substituted) phenylene, piperidin-1,4-diyl; W = Ar, Het, N(R2)2, R2, cycloalkyl; X = NH, O; A = (fluoro-substituted) O-, S-, or CH:CH-interrupted alkyl; Ar = (substituted) Ph; Het = (aromatic) (substituted) heterocyclyl; n = 0, 1], were prepared Thus, Z-D-Phe-OH, 2'-methylsulfonylbiphenyl-4-ylamine, N-(3-dimethylaminopropyl)-N'-methylcarbodiimide hydrochloride, 1-hydroxybenzotriazole, and 4-methylmorpholine were stirred 40 h in DMF to give benzyl [(R)-1-(2'-methylsulfonylbiphenyl-4-ylcarbamoyl)-2-phenylethyl]carbamate. This was hydrogenolyzed in MeOH over Pd/C and the

L13 ANSWER 98 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2002:449467 CAPLUS
 DOCUMENT NUMBER: 137:37379
 TITLE: Primary intermediates for oxidative coloration of hair
 INVENTOR(S): Lim, Mu-ill; Fan, Ylueh-Guo
 PATENT ASSIGNEE(S): Clairrol Incorporated, USA
 SOURCE: PCT Int. Appl., 77 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002045675	A1	20020613	WO 2001-US47532	20011205
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002106341	A1	20020808	US 2000-730707	20001206
US 6521761	B2	20030218		
CA 2428091	AA	20020613	CA 2001-2428091	20011205
AU 2002027330	A5	20020618	AU 2002-27330	20011205
EP 1414392	A1	20040506	EP 2001-996192	20011205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
JP 2004514725	T2	20040520	JP 2002-547461	20011205
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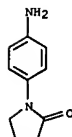
OTHER SOURCE(S): MARPAT 137:37379
 GI



X-

I

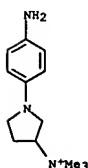
L13 ANSWER 97 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 product was stirred with 4-chlorophenyl isocyanate in CH2Cl2 to give (R)-2-[3-(4-chlorophenyl)ureido]-N-(2'-methylsulfonylbiphen-4-yl)-3-phenylpropionamide. The latter inhibited factor Xa with IC50 = 8.6 x 10-8 M.
 IT 13691-22-0
 RL: RCT (Reactant); RACT (Reactant or reagent) (starting material: preparation of ureido- and carbamoyloxy-substituted amides as inhibitors of factor Xa for the treatment of clotting disorders such as strokes and cancer)
 RN 13691-22-0 CAPLUS
 CN 2-Pyrrolidinone, 1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L13 ANSWER 98 OF 298 CAPLUS COPYRIGHT 2006 ACS ON STN (Continued)
 AB Primary intermediates useful hair coloring systems comprise quaternized pyrrolidine compds. The invention provides new quaternized pyrrolidine of formula (I): wherein X is Cl, Br, I, or R3SO4; R is a Cl to C22 alkyl group or a Cl to C22 mono or dihydroxyalkyl group; R1 and R2 are each independently a Cl to C4 alkyl group; R3 is a Cl to C22 alkyl group or a Cl to C22 mono or dihydroxyalkyl group; R4 is a hydrogen atom, a Cl to C22 alkyl group or such an alkyl group substituted with one or more hydroxy amino moieties; and R5 is a hydrogen atom or a hydroxy group. Thus, 1-(4-aminophenyl)-N,N,N-trimethylpyrrolidin-3-aminium iodide (II) was prepared by the reaction of [1-(4-nitrophenyl)-pyrrolidin-3-yl]dimethylamine with Me iodide and hydrogenation of the resulting 1-(4-nitrophenyl)-N,N,N-trimethylpyrrolidin-3-aminium iodide. The color produced by combination of II with various couplers such as resorcinol, m-aminophenol, 5-aminophenol, and 2,4-diaminophenoxyethanol is reported.
 IT 435275-82-4 435275-84-6
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (primary intermediates for oxidative coloration of hair)
 RN 435275-82-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

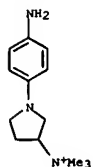


● Cl-

RN 435275-84-6 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, sulfite (1:1) (9CI) (CA INDEX NAME)

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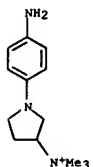
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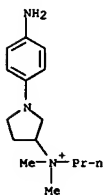
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CRN 15181-46-1
CMF H O3 S

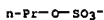
IT 435275-60-0P 435275-61-9P 435275-62-0P
435275-64-2P 435275-65-3P 435275-66-4P
435275-67-5P 435275-68-6P 435275-69-7P
435275-70-0P 435275-71-1P 435275-72-2P
435275-73-3P 435275-74-4P 435275-75-5P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(primary intermediates for oxidative coloration of hair)
RN 435275-60-8 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N,N-trimethyl-, iodide (9CI)
(CA INDEX NAME)

● I⁻

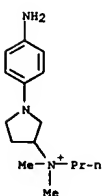
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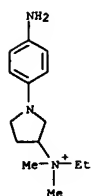
CM 2

CRN 72640-73-4
CMF C3 H7 O4 S

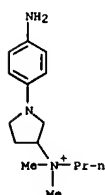
RN 435275-65-3 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, bromide (9CI) (CA INDEX NAME)

● Br⁻

RN 435275-66-4 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-butyl-N,N-dimethyl-, iodide (9CI)
(CA INDEX NAME)

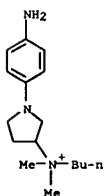
● I⁻

RN 435275-62-0 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, iodide (9CI) (CA INDEX NAME)

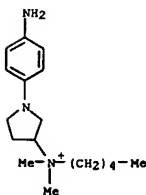
● I⁻

RN 435275-64-2 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-propyl-, propyl sulfate (9CI) (CA INDEX NAME)

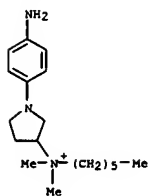
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CRN 435275-63-1
CMF C15 H26 N3● I⁻

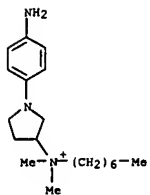
RN 435275-67-5 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-pentyl-, iodide (9CI) (CA INDEX NAME)

● I⁻

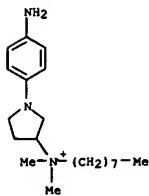
RN 435275-68-6 CAPLUS
CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexyl-N,N-dimethyl-, iodide (9CI)
(CA INDEX NAME)

● I⁻

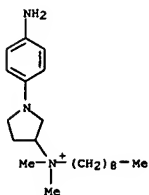
RN 435275-69-7 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-heptyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

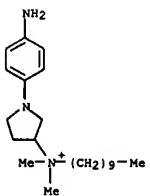
RN 435275-70-0 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-octyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

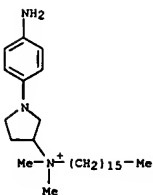
RN 435275-71-1 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N,N-dimethyl-N-nonyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

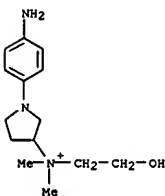
RN 435275-72-2 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-decyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

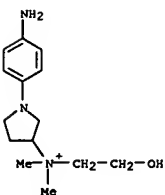
RN 435275-73-3 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-hexadecyl-N,N-dimethyl-, iodide
 (9CI) (CA INDEX NAME)

● I⁻

RN 435275-74-4 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-,
 iodide (9CI) (CA INDEX NAME)

● I⁻

RN 435275-75-5 CAPLUS
 CN 3-Pyrrolidinaminium, 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethyl-,
 bromide (9CI) (CA INDEX NAME)

● Br⁻

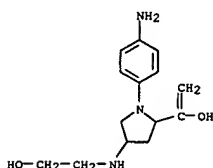
REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L13 ANSWER 99 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:449464 CAPLUS
 DOCUMENT NUMBER: 137:24127
 TITLE: Oxidation dyeing composition based on
 1-(4-aminophenyl)pyrrolidines substituted in
 positions 2 and 4
 INVENTOR(S): Terranova, Eric; Sabelle, Stephane; Vidal, Laurent
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: PCT Int. Appl., 32 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

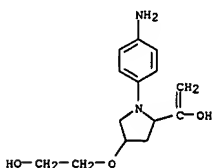
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WO 2002045672	A1	20020613	WO 2001-FR3571	20011114
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FR 2817473	A1	20020607	FR 2000-15843	20001206
FR 2817473	B1	20030103		
AU 2002018373	A5	20020618	AU 2002-18373	20011114
EP 1341511	A1	20030910	EP 2001-999351	20011114
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004078905	A1	20040429	US 2003-433411	20031029
US 2005097682	A9	20050512		
PRIORITY APPL. INFO.: FR 2000-15843 A 20001206				
WO 2001-FR3571 W 20011114				

OTHER SOURCE(S): MARPAT 137:24127
 AB The invention concerns an oxidation dyeing composition for keratinous fibers, in particular human keratinous fibers such as hair, comprising as oxidation base a 1-(4-aminophenyl)pyrrolidine substituted in positions 2 and 4. The invention also concerns the method for oxidation dyeing of keratinous fibers using said compns. Thus, 1-(4-aminophenyl)-4-hydroxypyrrolidine-2-carboxylic acid (I) was prepared by hydrogenation of 1-(4-nitrophenyl)-4-hydroxypyrrolidine-2-carboxylic acid (preparation given). A hair dye composition contained 1.6x10⁻³ mol, 1-beta-hydroxyethylxoy-2,4-diaminobenzene dihydrochloride 6x10⁻³, excipients and water q.s. 100 g. Equal amts. of the dye composition is mixed with 20 volume hydrogen peroxide and is applied on the hair for 30 min, the hair is then rinsed, washed with a shampoo, rinsed, and dried to obtain a light blue color.
 IT 433917-74-9 433917-75-0 433917-76-1
 433917-77-2 433917-78-3 433917-79-4
 433917-80-7 433917-81-8 433917-82-9

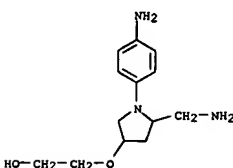
L13 ANSWER 99 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 433917-77-2 CAPLUS
 CN 2-Pyrrolidinemethanol, 1-(4-aminophenyl)-4-(2-hydroxyethoxy)-α-methylene- (9CI) (CA INDEX NAME)



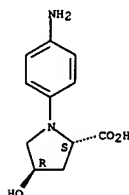
RN 433917-78-3 CAPLUS
 CN Ethanol, 2-[[5-(aminomethyl)-1-(4-aminophenyl)-3-pyrrolidinyl]oxy]- (9CI) (CA INDEX NAME)



RN 433917-79-4 CAPLUS
 CN Ethanol, 2-[[5-(aminomethyl)-1-(4-aminophenyl)-3-pyrrolidinyl]amino]- (9CI) (CA INDEX NAME)

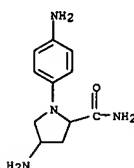
L13 ANSWER 99 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
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 433918-04-8 433918-05-9 433918-06-0
 433918-07-1 433918-08-2 433918-10-6
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (oxidn. dyeing compn. based on substituted aminophenylpyrrolidines)
 RN 433917-74-9 CAPLUS
 CN L-Proline, 1-(4-aminophenyl)-4-hydroxy-, dihydrochloride, (4R)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



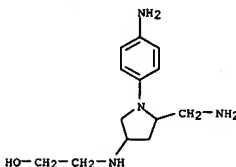
● 2 HCl

RN 433917-75-0 CAPLUS
 CN 2-Pyrrolidinecarboxamide, 4-amino-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)

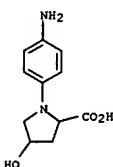


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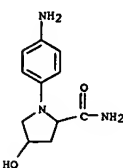
L13 ANSWER 99 OF 298 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



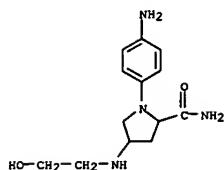
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 CN Proline, 1-(4-aminophenyl)-4-hydroxy- (9CI) (CA INDEX NAME)



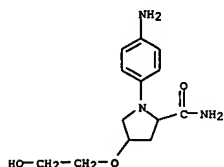
RN 433917-81-8 CAPLUS
 CN 2-Pyrrolidinecarboxamide, 1-(4-aminophenyl)-4-hydroxy- (9CI) (CA INDEX NAME)



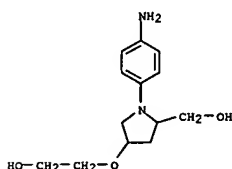
RN 433917-82-9 CAPLUS
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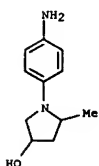
RN 433917-83-0 CAPLUS
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(CA INDEX NAME)



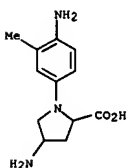
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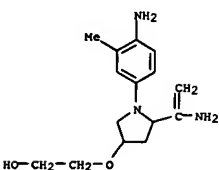
RN 433917-85-2 CAPLUS
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(CA INDEX NAME)



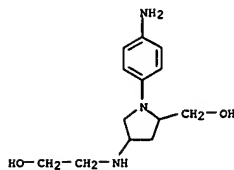
RN 433917-89-6 CAPLUS
CN Proline, 4-amino-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



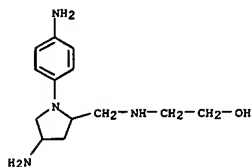
RN 433917-90-9 CAPLUS
CN Ethanol, 2-[[5-(1-aminoethyl)-1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]- (9CI) (CA INDEX NAME)



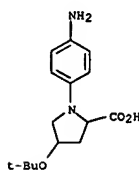
RN 433917-91-0 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-amino-3-methylphenyl)-4-[(2-hydroxyethyl)amino]-alpha-methylene- (9CI) (CA INDEX NAME)



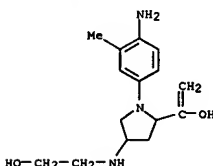
RN 433917-86-3 CAPLUS
CN Ethanol, 2-[[[4-amino-1-(4-aminophenyl)-2-pyrrolidinyl]methyl]amino]- (9CI) (CA INDEX NAME)



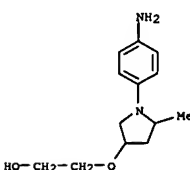
RN 433917-87-4 CAPLUS
CN Proline, 1-(4-aminophenyl)-4-(1,1-dimethylethoxy)- (9CI) (CA INDEX NAME)



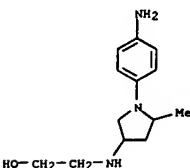
RN 433917-88-5 CAPLUS
CN 3-Pyrrolidinol, 1-(4-aminophenyl)-5-methyl- (9CI) (CA INDEX NAME)



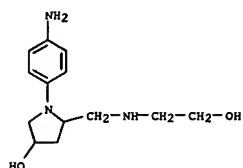
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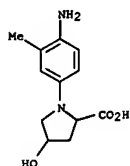
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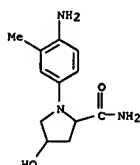
RN 433917-94-3 CAPLUS
CN 3-Pyrrolidinol, 1-(4-aminophenyl)-3-[(2-hydroxyethyl)amino]methyl- (9CI)
(CA INDEX NAME)



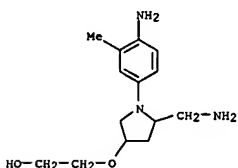
RN 433917-95-4 CAPLUS
CN Proline, 1-(4-amino-3-methylphenyl)-4-hydroxy- (9CI) (CA INDEX NAME)



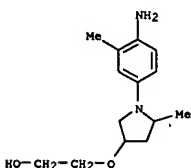
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CN 2-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)-4-hydroxy- (9CI)
(CA INDEX NAME)



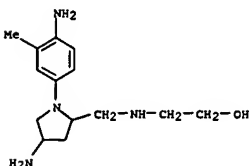
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CN 2-Pyrrolidinecarboxamide, 4-amino-1-(4-amino-3-methylphenyl)- (9CI) (CA INDEX NAME)



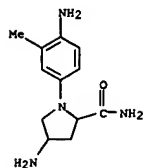
RN 433918-01-5 CAPLUS
CN Ethanol, 2-[[1-(4-amino-3-methylphenyl)-5-methyl-3-pyrrolidinyl]oxy]- (9CI) (CA INDEX NAME)



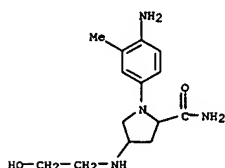
RN 433918-02-6 CAPLUS
CN Ethanol, 2-[[1-(4-amino-3-methylphenyl)-2-pyrrolidinyl]methyl]amino]- (9CI) (CA INDEX NAME)



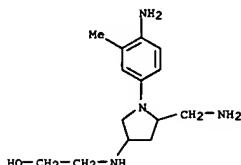
RN 433918-03-7 CAPLUS
CN Proline, 1-(4-amino-3-methylphenyl)-4-(1,1-dimethylethoxy)- (9CI) (CA INDEX NAME)



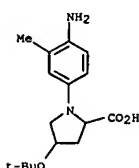
RN 433917-98-7 CAPLUS
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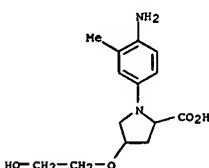
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CN Ethanol, 2-[[5-(aminomethyl)-1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]- (9CI) (CA INDEX NAME)



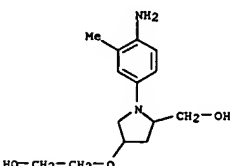
RN 433918-00-4 CAPLUS
CN Ethanol, 2-[[5-(aminomethyl)-1-(4-amino-3-methylphenyl)-3-pyrrolidinyl]oxy]- (9CI) (CA INDEX NAME)



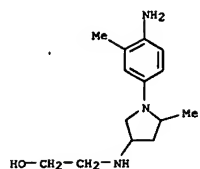
RN 433918-04-8 CAPLUS
CN Proline, 1-(4-amino-3-methylphenyl)-4-(2-hydroxyethoxy)- (9CI) (CA INDEX NAME)



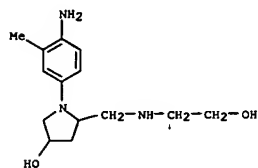
RN 433918-05-9 CAPLUS
CN 2-Pyrrolidinecarboxamide, 1-(4-amino-3-methylphenyl)-4-(2-hydroxyethoxy)- (9CI) (CA INDEX NAME)



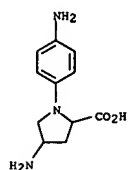
RN 433918-06-0 CAPLUS
CN Ethanol, 2-[[1-(4-amino-3-methylphenyl)-5-methyl-3-pyrrolidinyl]amino]- (9CI) (CA INDEX NAME)



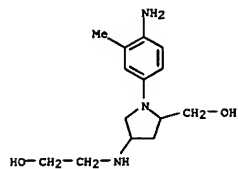
RN 433918-07-1 CAPLUS
CN 3-Pyrrolidinol, 1-(4-amino-3-methylphenyl)-5-[(2-hydroxyethyl)amino]methyl- (9CI) (CA INDEX NAME)



RN 433918-08-2 CAPLUS
CN Proline, 4-amino-1-(4-aminophenyl)- (9CI) (CA INDEX NAME)



RN 433918-10-6 CAPLUS
CN 2-Pyrrolidinemethanol, 1-(4-amino-3-methylphenyl)-4-[(2-hydroxyethyl)amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

=>

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1550.18	2210.82
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-223.50	-234.00

FILE 'REGISTRY' ENTERED AT 06:42:41 ON 17 FEB 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 15 FEB 2006 HIGHEST RN 874326-73-5
DICTIONARY FILE UPDATES: 15 FEB 2006 HIGHEST RN 874326-73-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

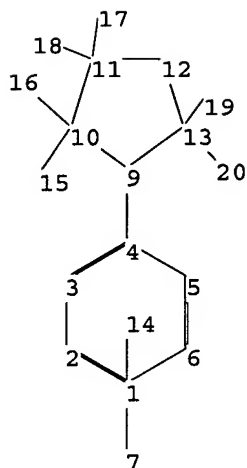
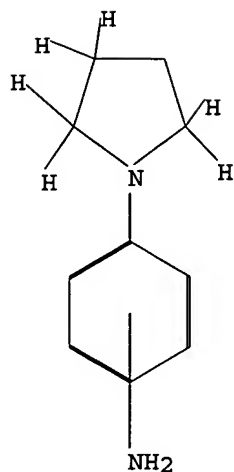
Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\10612986.str



```

chain nodes :
7 15 16 17 18 19 20
ring nodes :
1 2 3 4 5 6 9 10 11 12 13
chain bonds :
4-9 10-15 10-16 11-17 11-18 13-19 13-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-13 10-11 11-12 12-13
exact/norm bonds :
4-9 9-10 9-13
exact bonds :
10-11 10-15 10-16 11-12 11-17 11-18 12-13 13-19 13-20
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 9 :
```

G1:H,CH3

Match level :

```

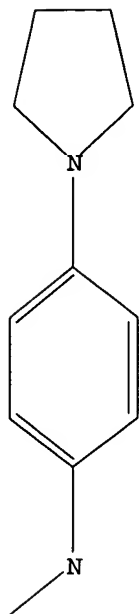
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS
```

L14 STRUCTURE UPLOADED

=> d

L14 HAS NO ANSWERS

L14 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l14

SAMPLE SEARCH INITIATED 06:42:59 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1534 TO ITERATE

100.0% PROCESSED 1534 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 28331 TO 33029

PROJECTED ANSWERS: 3998 TO 5882

L15 50 SEA SSS SAM L14

=> s l14 full

FULL SEARCH INITIATED 06:43:04 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 32028 TO ITERATE

100.0% PROCESSED 32028 ITERATIONS

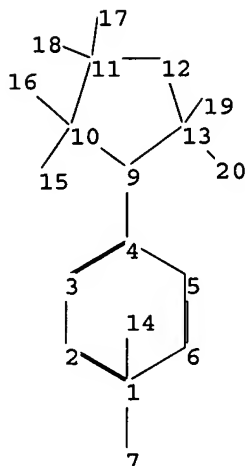
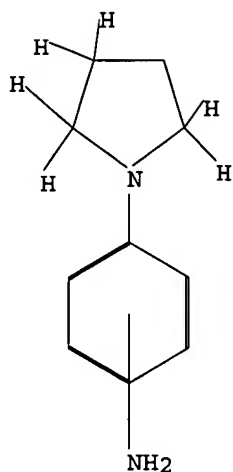
5016 ANSWERS

SEARCH TIME: 00.00.01

L16 5016 SEA SSS FUL L14

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\10612986.str



```

chain nodes :
7 15 16 17 18 19 20
ring nodes :
1 2 3 4 5 6 9 10 11 12 13
chain bonds :
4-9 10-15 10-16 11-17 11-18 13-19 13-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 9-10 9-13 10-11 11-12 12-13
exact/norm bonds :
4-9 9-10 9-13
exact bonds :
10-11 10-15 10-16 11-12 11-17 11-18 12-13 13-19 13-20
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 9 :

```

G1:H,CH3

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS

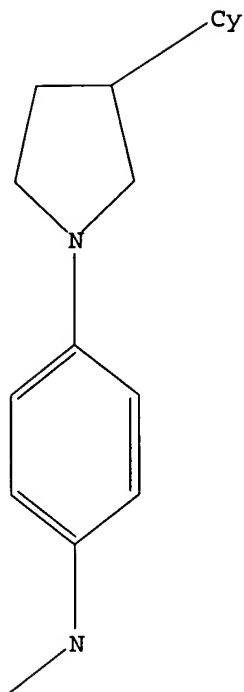
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L17 STRUCTURE UPLOADED

=> d

L17 HAS NO ANSWERS

L17 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l17 subset=l16 full

FULL SUBSET SEARCH INITIATED 06:43:41 FILE 'REGISTRY'

FULL SUBSET SCREEN SEARCH COMPLETED - 5016 TO ITERATE

100.0% PROCESSED 5016 ITERATIONS

106 ANSWERS

SEARCH TIME: 00.00.01

L18 106 SEA SUB=L16 SSS FUL L17

=> s l18 and caplus/lc

49752170 CAPLUS/LC

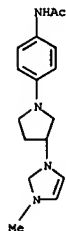
L19 71 L18 AND CAPLUS/LC

=> s l18 not l19

L20 35 L18 NOT L19

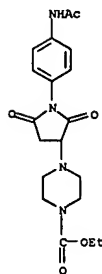
=> d l20 1-35

L20 ANSWER 1 OF 35 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 852615-58-8 REGISTRY
 ED Entered STN: 21 Jun 2005
 CN 1H-Imidazolium, 1-[[1-[4-(acetylamino)phenyl]-3-pyrrolidinyl]-3-methyl-
 (9CI) (CA INDEX NAME)
 MF C16 H21 N4 O
 CI COM
 SR CA



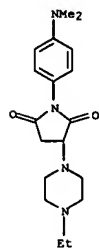
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L20 ANSWER 2 OF 35 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 847239-30-9 REGISTRY
 ED Entered STN: 25 Mar 2005
 CN 1-Piperazinecarboxylic acid, 4-[1-[4-(acetylamino)phenyl]-2,5-dioxo-3-pyrrolidinyl]-, ethyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C19 H24 N4 O5
 SR Chemical Library
 Supplier: ChemBridge Corporation
 LC STN Files: CHEMCATS



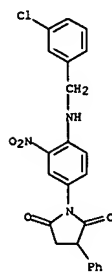
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 3 OF 35 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 839686-31-6 REGISTRY
 ED Entered STN: 01 Mar 2005
 CN 2,5-Pyrrolidinedione, 1-[4-(dimethylamino)phenyl]-3-(4-ethyl-1-piperazinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H26 N4 O2
 SR Chemical Library
 Supplier: ChemBridge Corporation
 LC STN Files: CHEMCATS



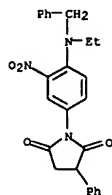
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 4 OF 35 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 697293-43-9 REGISTRY
 ED Entered STN: 22 Jun 2004
 CN 2,5-Pyrrolidinedione, 1-[4-[[[3-chlorophenyl)methyl]amino]-3-nitrophenyl]-3-phenyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C23 H18 Cl N3 O4
 SR Chemical Library
 Supplier: ChemDiv, Inc.
 LC STN Files: CHEMCATS



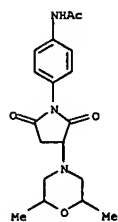
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 5 OF 35 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 697293-42-8 REGISTRY
 ED Entered STN: 22 Jun 2004
 CN 2,5-Pyrrolidinedione, 1-[4-[ethyl(phenylmethyl)amino]-3-nitrophenyl]-3-phenyl- (9CI) (CA INDEX NAME)
 MF C25 H23 N3 O4
 SR Chemical Library
 Supplier: ChemDiv, Inc.
 LC STN Files: CHEMCATS



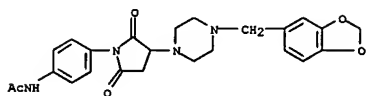
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 6 OF 35 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 495374-30-6 REGISTRY
 ED Entered STN: 27 Feb 2003
 CN Acetamide, N-[4-[3-(2,6-dimethyl-4-morpholinyl)-2,5-dioxo-1-pyrrolidinyl]phenyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H23 N3 O4
 SR Chemical Library
 Supplier: Interchim
 LC STN Files: CHEMCATS



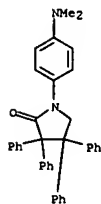
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 7 OF 35 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 489414-82-6 REGISTRY
 ED Entered STN: 13 Feb 2003
 CN Acetamide, N-[4-[3-[4-(1,3-benzodioxol-5-ylmethyl)-1-piperazinyl]-2,5-dioxo-1-pyrrolidinyl]phenyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C24 H26 N4 O5
 SR Chemical Library
 Supplier: Interchim
 LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 8 OF 35 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 412298-06-7 REGISTRY
 ED Entered STN: 08 May 2002
 CN 2-Pyrrolidinone, 1-[4-(dimethylamino)phenyl]-3,3,4,4-tetraphenyl- (9CI) (CA INDEX NAME)
 MF C36 H32 N2 O
 SR Reaction Database



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT